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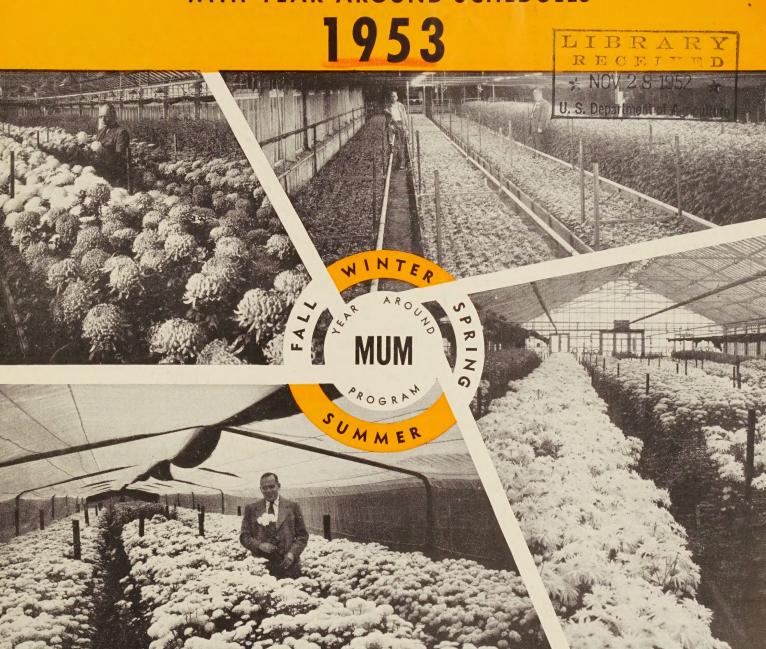
Do not assume content reflects current scientific knowledge, policies, or practices.



62,23

BALL MUM GUIDE

WITH YEAR AROUND SCHEDULES



Complete Carnation Cutting List

Grog Ball

WEST CHICAGO

IIIINOIS



New Varieties for 1953

LARGE FLOWERING STANDARDS

WHITE

Giant Betsy Ross (Yoder). Nov. 5. Large flowered sport of Betsy Ross. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Crystal Queen (Yoder). Nov. 10. Sport of Orchid Queen.

YELLOW

Moribana (DePetris). Oct. 25. Y.ellow spider. Recommended for June flowering but tall and will require 12 weeks short day response treatment.

Gold Lace (Yoder). Nov. 1. Golden yellow sport of Yellow Lace. Tubes are straight.

Hooked Lace (Yoder). Nov. 1. Sport of Yellow Lace. The tube ends open and incurve, presenting an attractive hooked appearance.

Imp. Indianapolis Yellow (Yoder). Nov. 5. Improved, slightly deeper yellow selection of Indianapolis Yellow.

Yellow Marketeer (Johannes) Nov. 18. Yellow sport selected from Marketeer.

Cream Mefo (Yoder). Nov. 20. Cream yellow selection from Mefo. Primarily of value in the December thru May flowering program. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Yellow Rayonnante. Nov. 5. Yellow sport of Rayonnante. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Mrs. Calkins. Nov. 25. Large, deep yellow standard, partial incurve. 50 cuttings for **\$3.50**; 100-250, **\$6.65** per 100; 300-450, **\$6.30** per 100; 500-950, **\$5.95** per 100; 1000-2450, **\$5.60** per 100; 2500-up, **\$5.25** per 100.

BRONZE AND RED

Dalwin (DePetris). Oct. 25. Large, light bronze spider. The quills are compactly arranged with small barbs. Shades well in the cloth house.

Red Glitters. Oct. 28. Sport of Glitters, 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Royal Bronze. Nov. 1. Large orange bronze disbud. Short, compact growth habit.

Dark Indianapolis Bronze (Calvert). Nov. 5. Dark reddish bronze sport of Indianapolis Bronze.

PINK

Lavender Queen (Yoder). Nov. 10. Sport of Orchid Queen. Flower more compact and color more intense than that of Dark Orchid Queen. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

POMPONS, SINGLES and ANEMONES

WHITE

Shooting Star (Baur & Steinkamp). Oct. 25. Intermediate single, clear white, productive, and possesses good form. Free growth. Useful in early shading programs. 50 cuttings for \$4.50; 100-250, \$8.55 per 100; 300-450, \$8.10 per 100; 500-950, \$7.65 per 100; 1000-2450, \$7.20 per 100; 2500-up, \$6.75 per 100.

Illini Igloo (Univ. of III.) Nov. 10. Int. white Pompon with creamy center; exceptional substance, very productive, good for outdoor shading.

White Lady (Julius Roehrs Co.). Nov. 25. White sport of Beautiful Lady.

Crystal Valencia (DePetris). Nov. 28. A white Valencia which does not have the tendency toward pinking at cool temperatures.

Carrara (DePetris). Dec. 8. Int. pure white decorative. Clean growth, fine spray formation. Has promise for use in the lighting program in December, January and February.

Illini Snowbound (Univ. of III.). Jan. 5. Large informal white decorative with cream center. Responds well to partial disbudding. Useful primarily for the natural crop.

YELLOW

Yellow Halo (Yoder). Nov. 1. Sport. Intermediate single deep lemon yellow. Recommended for April 15 thru November 1 greenhouse culture.

Tacoma (DePetris). Nov. 15. Large golden yellow Pompon with very broad petals. Excellent form and growth habit. One of the best yellowish bronze Pompons for mid-November.

PRICES above varieties except where noted: 50 cuttings for \$5.00; 100-250 cuttings, \$9.50 per 100; 300-450 cuttings, \$9.00 per 100; 500-950 cuttings, \$8.50 per 100; 1000-2450 cuttings, \$8.00 per 100; 2500 or more cuttings, \$7.50 per 100.



YELLOW—Continued

- D.C.P. (Paschke). Oct. 1. Small yellow pompon. Very dwarf, compact, and prolific. Best suited for border work in outdoor gardens and pot plants. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Moondrift (Yoder). Oct. 20. Intermediate cream yellow single. Excellent growth and production. Recommended for April 15 to June 15 and September 15 to October 20 flowering. Suggested for late cloth house.
- Ivory Sea Gull. Nov. 1. Sport of Sea Gull. Intermediate ivory Pompon. 50 cuttings, \$3.00; 100-250, \$5.70 per 100; 300-450, \$5.40 per 100; 500-950, \$5.10 per 100; 1000-2450, \$4.80 per 100; 2500-up, \$4.50 per 100.
- Yellow Nagona (California Yellow Mensa). Nov. 10. Sport of Nagona. Int. lemon yellow single. Short, semi-vegetative habit. Well known and widely grown. Requires 1 week additional time over its recommended long day treatment to obtain adequate stem length. 50 cuttings, \$3.50 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Yellow Highbrow (Yoder). Nov. 20. Sport. Int. golden yellow Pompon, identical in habit with Highbrow. Very useful in late (September 15 and on) cloth house. Recommend greenhouse flowering period October 15-December 15 and March 1 thru April.

- Illini Sunspot. Nov. 20. Large deep yellow Pompon. Responds well to disbudding; good production. Suggested for late cloth house.
- Illini Sunny (Univ. of III.). Nov. 25. Int. deep yellow Pompon . Resembles Yellow Cordova with harder flower and no tendency toward blind growth. Excellent production and good growth habit.
- Goldenrod (DePetris). Nov. 25. Full round and solid yellow Pompon with exceptional substance and keeping qualities. Can be kept on the plant for a long time without impairing the color, substance or form of the flower. Gives a heavy production of high quality sprays. 50 cuttings for \$4.50; 100-250, \$8.55 per 100; 300-450, \$8.10 per 100; 500-950, \$7.65 per 100; 1000-2450, \$7.20 per 100; 2500-up, \$6.75 per 100.
- Yellow Galaxy (Ahern). Dec. 1. Sport of Galaxy. Deep lemon yellow intermediate single possessing the wide flat petal so attractive in its parent. Useful from October 15 thru full winter program.
- **Yellow Spangles** (Yoder). Dec. 5. Deep lemon yellow sport of Spangles.
- **Cream Snowcrest** (H. R. Frank). Dec. 15. Cream yellow sport of Snowcrest. A soft color, very useful December thru February.
- **Gold Seal** (DePetris). Dec. 20. Int. lemon yellow single. Very heavy production. Recommended for winter flowering. More productive than either Sunkist or Cinderella.
- Illini Yellow Snowbound (Univ. of III.). Jan. 5. A yellow sport of Illini Snowbound.

BRONZE AND RED

- **Bronze Mary McArthur.** Oct. 23. Orange bronze sport of Mary McArthur. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Imp. Bronze Daisy (Katoka Red). Nov. 1. Intermediate bronze single. Growth habit similar to Bronze Daisy. Color is more intense and vivid than original, holding better under high temperature conditions. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Imp. Red Daisy (Adachi Red). Nov. 1 An improved selection of Red Daisy. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Dark-Bronze Minstrel. Dec. 13. Reddish bronze sport of Bronze Minstrel.

- Comanche (Baur-Steinkamp). Nov. 2. Int. Pompon, reddish bronze. Color and form improve Sparkler. Habit and production resemble Gold Coast. Recommended for any shading and flowering program that suits Gold Coast. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.
- Illini Tangier (Univ. of III.) Nov. 12. Large rusty red-bronze decorative. Color holds well during summer for a bronze.
- **Wanakah** (Skloud). Nov. 25. Coral salmon sport of Hasegawa Pink. Good production and growth habit of the original.
- **Bronze Enchantress.** Dec. 5. Orange bronze sport of Enchantress. 50 cuttings for \$3.25; 100-250, \$6.15 per 100; 300-450, \$5.85 per 100; 500-950, \$5.50 per 100; 1000-2450, \$5.20 per 100; 2500-up, \$4.85 per 100.

PRICES above varieties except where noted: 50 cuttings for \$5.00; 100-250 cuttings, \$9.50 per 100; 300-450 cuttings, \$9.00 per 100; 500-950 cuttings, \$8.50 per 100; 1000-2450 cuttings, \$8.00 per 100; 2500 or more cuttings, \$7.50 per 100.



PINK

Ponca. (Univ. of Neb.). Oct. 10. Small decorative. Deep lavender pink. Compact and prolific. Useful for gardens and pot plants. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Ronnie. Oct. 12. Small dark lavender button Pompon. Vigorous and productive. Striking color and form for garden culture. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Rainbow (Yoder). Nov. 1. Small coral pink single. New and beautiful color. Vigorous and productive. Suggested season April-June 15 and September-November 1.

Arbutus (DePetris). November 1. Small shrimp pink Pompon. Good growth and production. A pleasing pastel color and high quality flower for the shading program.

Almega. (DePetris). Nov. 20. Large light lavender pink Pompons. Form, color and substance excellent. Average production, vigorous but tall growth.

Dark Long Island Beauty (Leisy). Nov. 20. An intensified color selection of Pink L.I. Beauty.

Evening Star (Baur & Steinkamp). Nov. 20. Small anemone, very deep lavender. Productive growth. Responds to shade well. A novelty color. 50 cuttings for \$4.50; 100-250, \$8.55 per 100; 300-450, \$8.10 per 100; 500-950, \$7.65 per 100; 1000-2450, \$7.20 per 100; 2500-up, \$6.75 per 100.

Dubonnet Valencia (Southern Floral). Nov. 28.

Dubonnet sport of Valencia. This variety improves Orchid Valencia with a brighter more intense color. Valuable for shading and delay programs.

Imp. Dark Supreme. Dec. 10. Improved sport of Dark Pink Supreme. This selection possesses a larger, flatter flower plus color intensification. All Supremes are best grown cool. 50 cuttings for \$3.50; 100-250, \$6.65 per 100; 300-450, \$6.30 per 100; 500-950, \$5.95 per 100; 1000-2450, \$5.60 per 100; 2500-up, \$5.25 per 100.

Light Pink Minstrel (Yoder). Dec. 13. Shell pink sport of Minstrel.

Serrated Riviera (Mikkelsen). Dec. 15. Saw-tooth petalled sport of Riviera, somewhat resembling a Carnation in form.

Rose Medallion (Yoder). Dec. 20. Rose pink sport of Medallion.

PRICES above varieties except where noted: 50 cuttings for \$5.00; 100-250 cuttings, \$9.50 per 100; 300-450 cuttings, \$9.00 per 100; 500-950 cuttings, \$8.50 per 100; 1000-2450 cuttings, \$8.00 per 100; 2500 or more cuttings, \$7.50 per 100.

General Index

New Varieties for 1953Cover 2, 19	Index of Greenhouse Varieties4
Greenhouse Varieties 3	Index of Garden Varieties4
Garden (Hardy) Varieties19	Carnation Cuttings
Chrysanthemum Culture24	

INSTRUCTIONS FOR ORDERING

The minimum total order that can be accepted is 500 cuttings.

Fifty of each variety is the minimum that can be supplied. More than 50 of a variety must be in multiples of 50.

Orders must be marked with a definite delivery date, such as May 10th, June 1st, etc. Orders marked "Early Delivery," "Deliver when ready," "Spring Delivery," are too indefinite.

In writing your order, please use special alphabetically arranged order blanks enclosed with this catalog.

SUBSTITUTIONS

We will substitute varieties as good or better for any items not listed in this catalog unless order is marked **No Substitutions.**

SHIPPING INFORMATION

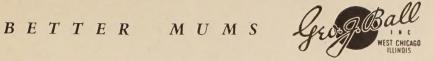
Special shipping instructions and address if different from your regular mail address should be shown on your order.

All cuttings are shipped Railway Express, Air Freight or Air Express, collect. If you have any preference, designate on your order; otherwise our shippers will use their best judgment. Cuttings are in perfect condition when they are accepted by the transportation company. Therefore, if there is any damage enroute from being broken, heated or frozen, CALL YOUR EXPRESS or AIR FREIGHT AGENT to inspect the shipment upon arrival, marking on express receipt or bill of lading the condition of the package and amount of damage, etc. YOU MUST FILE CLAIMS, as our responsibility ceases when the carrier accepts shipment. We cannot be responsible for the safe arrival of your cuttings.

LIMITATION OF WARRANTY

We, Geo. J. Ball, Inc., warrant, to the extent of the purchase price, that seeds, plants or bulbs sold are as described on the container, within recognized tolerances. We give no other or further warranty, express or implied.

IMPORTANT: ABSOLUTELY NO CHANGES ON YOUR ORDER CAN BE ACCEPTED WITHIN 30 DAYS OF DELIVERY DATE.



Types are abbreviated as follows: Inc.—Incurved; Ref.—Reflexed. Size of flower is indicated by S—Small; M—Medium; L-Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

WHITE

Best Whites for August, Betsy Ross; September, *Betsy Ross; October, *Indianapolis White; November, Indianapolis White, Marketeer; Thanksgiving, Chattanooga; December, December Glory; Christmas, Smith's Late White.

Manager F

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only			
	8-Weel	Varieties					
Silver Sheen White Chief Christina	July 8	Oct. 20 Oct. 20 Oct. 23	Med. Inc. Med. Inc. Sport. S. Inc.	\$3.00 3.50 3.50			
	9-Weel	Varieties					
Ambassador Granite State Albatross Snow White Wilson's White	July 12 July 14 July 14	Oct. 25 Oct. 25 Nov. 1 Nov. 1 Nov. 1	Cream white. L. Inc. Pure white. S. Inc. Pure white. M. Inc. L. Inc. M. Inc.	3.00 3.00 3.00 3.00 4.50			
	10-Wee	k Varieties					
Betsy Ross Giant Betsy Ross Indianapolis White Richard Mandel Crystal Queen (New) Jean Elizabeth Monument White Pockett	July 16 July 20 July 19 July 20 July 20 July 20 July 20	Nov. 5 Nov. 5 Nov. 5 Nov. 10 Nov. 10 Nov. 10 Nov. 10	Ivory white. L. Inc. Sport of Betsy Ross M. Inc. S. Inc. Improved Jean Elizabeth Large Semi-Inc. Ivory white. M. Inc. L. Inc.	3.00 3.50 3.00 3.00 5.00 3.25 3.00 3.25			
	11-Wee	k Varieties					
Sterling Marketeer Indiana Market Mefo White Frick	July 25 July 24 July 24	Nov. 15 Nov. 18 Nov. 20 Nov. 20 Nov. 20	White. L. Inc. M. Inc. M. Inc. Ivory white, L. Inc. White suffused pink. M. Inc.	3.50 3.00 3.50 3.00 3.00			
12-Week Varieties							
Chattanooga December Glory Margaret Moeller	July 31	Nov. 25 Dec. 1 Dec. 3	L. Inc. Ivory white. M. Inc. White. M. Inc.	3.00 3.00 3.00			
	13-Wee	k Varieties					
December White White Mistletoe Snowline Smith's White	July 31 Aug. 5	Dec. 5 Dec. 5 Dec. 10 Dec. 13	M. Inc. Med. Inc. Showy white flower. L. Inc. Ivory white. M. Semi-Inc.	3.25 3.25 4.00 3.25			
*Starred varieties must be shaded to flow	er at this time.						

*Starred varieties must be shaded to flower at this time.



YELLOW

Best yellows for August, *Good News; September, *Good News; October, *Indianapolis Yellow; November, Indianapolis Yellow, Yellow Mefo; Thanksgiving, Yellow Chattanooga; December, Golden Mrs. Ross; Christmas, Tobin's Yellow.

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only
		ek Varieties		
Harvest Golden Celestra Gold Lode Butterball Mrs. Kidder Blazing Gold	July 10 July 8 July 8 July 8 July 8	Oct. 10 Oct. 15 Oct. 15 Oct. 20 Oct. 20 Oct. 23	Deep gold. Med. Inc. Lemon yellow. S. Semi-Inc. Golden yellow. M. Ref. M. Inc. Deep lemon yellow. M. Inc. Deep gold. M. Semi-Inc.	\$3.50 3.00 3.00 3.50 2.75 3.00
	9-We	ek Varieties		
Smith's Superlative Sunglow Yellow Ambassador Yellow Bergen Golden Glory Good News	July 14 July 14 July 14 July 14	Oct. 25 Oct. 25 Oct. 25 Oct. 25 Nov. 1 Nov. 1	Golden yellow. M. Semi-Inc. Golden yellow. L. Inc. Light lemon yellow. L. Inc. Med. Inc. Golden yellow. M. Inc. Deep lemon yellow. M. Inc.	3.25 2.75 3.00 3.25 3.25 3.25
	10-We	ek Varieties		
Dark Indianapolis Yellow Imp. Indianapolis Yellow. (New) Indianapolis Yellow Jamboree Yellow Beauty Yellow Monument Yellow Pockett Yellow Queen Honey Dew	July 19 July 20 July 19 July 19 July 19 July 22 July 19 July 19 July 19 July 22	Nov. 5 Nov. 5 Nov. 5 Nov. 10	For pot plant use only. Selection of Ind. Yellow Lemon yellow. M. Inc. Golden yellow. S. Inc. Light lemon yellow. L. Inc. L. Inc. Sport of Orchid Queen. L. Inc. Lemon yellow. M. Inc.	3.50 5.00 3.00 4.00 3.25 3.00 3.25 3.25 3.25
Yellow Marketeer (New)		Nov. 18	Sport of Marketeer	5.00
Bonnaffon Deluxe Cream Mefo Friendly Rival Purdue Yellow Mefo Harvester Marie DePetris	July 25 July 25 July 25 July 25 July 25 July 25 July 24	Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 23 Nov. 23	Golden yellow. S. Inc. Sport of Mefo Deep chrome yellow. M. Inc. Lemon yellow. M. Inc. Lemon yellow. L. Inc. Deep canary yellow. M. Inc. Deep golden yellow. M. Inc.	5.00 2.75 3.50 3.00 3.50 3.00 3.00
	12-We	ek Varieties		
Golden Pearson Mrs. Calkins Sungold Yellow Chattanooga Golden Mrs. Ross Yellow Moeller	July 28 July 28 July 28 July 30	Nov. 25 Nov. 25 Nov. 25 Nov. 25 Dec. 3	Light golden yellow. M. Inc. Golden yellow. M. Semi-Inc. Lemon yellow. M. Inc. L. Inc. Golden yellow. L. Inc. Sport of Margaret Moeller.	3.00 3.50 3.00 3.00 3.00 3.50
	13-We	ek Varieties		
Chalice Golden Mistletoe Dauntless Meteore Tobin's Yellow	. Aug. 1 . Aug. 4 . Aug. 4 . Aug. 4	Dec. 5 Dec. 13 Dec. 13 Dec. 13	M. Inc. Light golden yellow. M. Inc. Golden yellow. Semi-Inc. Lemon yellow. M. Semi-Inc. Light lemon. M. Semi-Inc.	4.50 3.25 3.50 3.25 3.25



Types are abbreviated as follows: Inc.—Incurved; Ref.—Reflexed. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

BRONZE AND RED

Best bronze and reds for August, *Detroit News; September, *Detroit News; October, *Indianapolis Bronze; November, Indianapolis Bronze; November, Indianapo apolis Bronze, Mrs. Roy; Thanksgiving, Gladys Pearson; December, Bronze Mistletoe.

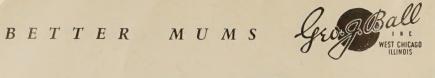
Variety	Pinch	Normal Flowering Date	Description	Price 50 Only			
	8-Wee	k Varieties					
Amber Bright		Oct. 15 Oct. 15	Amber bronze. M. Inc. Dark amber. M. Inc.	\$3.50 3.50			
	9-Wee	k Varieties					
Hilda Bergen Glitters Red Glitters Apricot Queen Ivanhoe Detroit News Royal Bronze (New)	July 14 July 16 July 16 July 16 July 16 July 16 July 16	Oct. 25 Oct. 28 Oct. 28 Nov. 1 Nov. 1 Nov. 1 Nov. 1	Dark reddish bronze. M. Inc. Deep reddish orange. M. Ref. Sport of Glitters Orange-bronze. M. Inc. Reddish bronze. S. Inc. Reddish bronze. M. Inc. Orange bronze. S. Inc.	3.25 3.25 3.50 3.25 3.25 3.25 5.00			
	10-Wee	ek Varieties					
Dark Indianapolis Bronze Indianapolis Bronze Indianapolis Golden Bronze Anaconda Bronze Orchid Queen Mrs. Stahelin Oakdale Garnet King Mrs. Roy Bronze Frick	July 20 July 19 July 20 July 20 July 20 July 20 July 20 July 24 July 20	Nov. 5 Nov. 5 Nov. 5 Nov. 8 Nov. 10 Nov. 10 Nov. 10 Nov. 13 Nov. 13	Sport of Ind. Bronze. M. Inc. Buff bronze. M. Inc. Quilled. For pot plant use only Deep coppery red. L. Inc. Apricot buff. L. Inc. Reddish bronze. M. Inc. Buff bronze. M. Inc. Dark red. M. Ref. Red. M. Inc. Light bronze. M. Inc.	5.00 3.00 4.50 3.00 3.25 3.50 4.00 3.25 3.25 3.50			
12-Week Varieties							
Gladys Pearson Oak Leaf (Bronze Pearson) Muto's Crimson	July 28	Nov. 25 Nov. 25 Dec. 1	Light buff bronze, M. Inc., M. Inc., Red. M. Semi-Inc.	3.00 3.00 3.50			
	13-We	ek Varieties					
Bronze Mistletoe	July 28	Dec. 5	Buff bronze, M. Inc.	3.25			

PINK

Best pinks for September, Indianapolis Pink; October, *Orchid Queen; November, Orchid Queen; Thanksgiving, Helen Frick.

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only
	8-W	eek Varieties		
Pink Chief Major Bowes		Oct. 15 Oct. 15	Lavender. M. Inc. Deep lavender. M. Inc.	\$3.00 3.00
	9-W	eek Varieties		
Sugar Plum			Hard pink mum, M. Inc.	4.00

^{*}Starred varieties must be shaded to flower at this time.



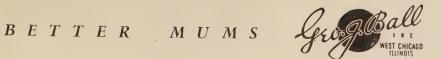
PINK—Continued

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only	
	10-Wee	ek Varieties			
Indianapolis Pink	July 20	Nov. 5	Deep lavender, M. Inc.	\$3.00	
J. W. Prince		Nov. 5	Lavender. M. Inc.	3.25	
Dark Orchid Queen		Nov. 10	Deep pink. L. Inc.	3.25	
Lavender Queen		Nov. 10	Sport of Orchid Queen.	3.50	
Orchid Queen		Nov. 10	Orchid pink. Semi-Inc.	3.25	
Pink Pockett		Nov. 10	Lavender. L. Inc.	3.25	
Queen of Pinks	July 19	Nov. 10	Lavender. S. Inc.	3.00	
	11-We	ek Varieties			
Aristocrat	July 22	Nov. 20	Deep lavender, L. Inc.	3.25	
Helen Frick		Nov. 20	Rose pink. M. Inc.	3.00	
Rose Delight		Nov. 20	Deep rose, M. Inc.	3.50	
Edwin Seidewitz		Nov. 23	Lavender, M. Inc.	3.00	
Thanksgiving Pink		Nov. 23	Deep pink, M. Ref.	3.00	
13-Week Varieties					
Pink Mistletoe	Aug. 1	Dec. 5	Lavender. M. Inc.	3.25	

Spider Varieties

Variety	Pine	ch	Normal Flowering Date	Description	Price 50 Only	
		9-Week	Varieties			
Dalwin (New)	July	14	Oct. 25	Light bronze	\$5.00	
Moribana (New)	July	14	Oct. 25	Yellow	5.00	
Gold Lace (New)			Nov. 1	Improved Yellow Lace.	5.00	
Hooked Yellow Lace (New)	July	14	Nov. 1	Yellow Lace with hooked petals	5.00	
Kay Tashima	July	14	Nov. 1	White	3.50	
Mary Garden	July	14	Nov. 1	Pink	4.00	
Mrs. R. A. Walker	July	14	Nov. 1	Deep lavender	3.50	
Queen's Lace	July	14	Nov. 1	White	3.50	
Yellow Lace	July	14	Nov. 1	Yellow sport of Queen's Lace	3.50	
		10-Wee	k Varieties			
Gena Harwood	July	19	Nov. 5	Buff bronze	3.50	
Mamoru			Nov. 5	Buff bronze	3.00	
Nomaga			Nov. 5	Bronze	4.50	
Rayonnante			Nov. 5	Pink	3.25	
Sue Sally Jones			Nov. 5	Deep lemon yellow	3.50	
Waikiki			Nov. 5	Apricot bronze	3.50	
White Rayonnante			Nov. 5	White	3.25	
Yellow Rayonnante			Nov. 5	Yellow	3.50	
Peggy Hoover			Nov. 10	Pink	3.50	
11-Week Varieties						
Lorraine	July		Nov. 15	Yellow	3.50	

MINIMUM ORDER 500 CUTTINGS, MINIMUM QUANTITY FURNISHED OF ANY ONE VARIETY, 50 CUTTINGS.



Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

WHITE

Best white for August, *Pinocchio; September, *Pinocchio; October, *Little America, Pinocchio; November, Sea Gull, Little America ica; Thanksgiving, Priscilla; December, Silversmith.

Pinch	Normal Flowering Date	Description	Price 50 Only		
7-W	eek Varieties				
June 25 June 25 June 30 June 30 June 30 July 5 July 4	Oct. 1 Oct. 1 Oct. 5 Oct. 5 Oct. 5 Oct. 5 Oct. 10 Oct. 10	inch growth. White daisy	4.00 4.00		
July 8	Oct. 12	M. Dec.	4.00		
8-W	leek Varieties				
July 14 July 10 July 10 July 10 July 8	Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 20 Oct. 20	(Kimoto's White). Sport S. Pom. S. Pom. L. Pom. S. Pom. Pure white. M. Pom.	3.50 3.00 4.50 2.75 2.75 3.50		
9-Week Varieties					
July 15 July 15 July 14 July 15 July 14 July 14 July 14 . July 14	Oct. 25 Oct. 28 Nov. 1 Nov. 1 Nov. 1	Pure white. S. Pom. Cream white. M. Pom. S. Pom. White. M. Pom. M. Single M. Pom. Cream white sport of Popcorn M. Pom. Early white daisy. Cream white. M. Pom. Ivory white. L. Pom.	3.00 4.50 3.00 3.50 4.50 4.00 4.50 3.00 4.00 3.00		
	7-W June 25 June 30 June 30 June 30 June 30 July 5 July 4 July 4 July 8 8-W July 10 July 10 July 10 July 8 July 8	Pinch Date	Pinch Date Description Description		

^{*}Starred varieties must be shaded to flower at this time.

THIS TABLE INDICATES PRICES FOR MORE THAN 50 OF A VARIETY ON ONE SHIPMENT

50 Only	100-250 Per 100	300-450 Per 100	500-950 Per 100	1000-2450 Per 100	2500-up Per 100
\$2.75 3.00	\$5.20 5.70	\$4.95 5.40	\$4.65 5.10	\$4.40 4.80	\$4.10 4.50
3.25	6.15	5.85	5.50	5.20	4.85
3.50	6.65	6.30	5.95	5.60	5.25
4.00 4.50	7.60 8.55	7.20 8.10	6.80 7.65	6.40 7.20	6.00 6.75
5.00	9.50	9.00	8.50	8.00	7.50
6.25	12.00	11.50	11.00	10.50	10.00
7.50	14.50	14.00	13.50	13.00	12.50







WHITE POPCORN

PRISTINE

COTTON TOP

Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

WHITE—Continued

Variety ·	Pinch	Normal Flowering Date	Description	Price 50 Only
	10-Wee	k Varieties		
Encore Kolowa Madonna White Anemone White Mensa Moonglow Rev. Bushnell Dynamo Illini Igloo (New) Little America Nagona. (Calif. White Mensa) Shasta Shasta Daisy Vesper Illini Snowdrift Matchless	July 19 July 19 July 19 July 19 July 20 July 22	Nov. 5 Nov. 5 Nov. 5 Nov. 5 Nov. 8 Nov. 8 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10	Pure white. M. Pom. White, yellow center. M. Sgl. M. Pom. L. Anemone Ivory white. L. Sgl. White. M. Pom. Cream white. M. Pom. M. Pom. M. Pom. Pure white. M. Anem. M. Sgl. M. Anemone M. Sgl. Sport of Shasta M. Pom. White. M. Dec. White. M. Pom.	\$3.50 4.00 4.50 3.25 3.00 3.50 3.25 4.50 5.00 2.75 3.50 3.00 3.00 3.50 3.00
	, and the second second	k Varieties		
Eskimo Lakme Sculpture Snowflurry White Freida White Norma	July 22 July 22 July 22 July 22 July 22	Nov. 15 Nov. 15 Nov. 15 Nov. 15 Nov. 15 Nov. 15	White, yellow center. M. Sgl. Green eye. S. Pom. Ivory white. L. Sgl. S. Pom. Yellow cushion. L. Anem. White suffused with pink. L. Anem.	4.50 3.50 4.50 4.00 3.00
Highbrow Long Island Beauty Nevada Priscilla Seafoam Crystal Beauty Illini Bountiful Paramount	July 24 July 24 July 24 July 24 July 28 July 28 July 28	Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 23 Nov. 23 Nov. 23	Ivory white. M. Dec. White, yellow cushion. L. Anem White, green cushion. M. Anem Ivory, M. Pom. M. Pom. Pure white, M. Pom. White. M. Dec. M. Pom.	4.00



WHITE—Continued

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only		
	12-We	ek Varieties				
White Lady (New) White Yuletide Crystal Valencia (New) White Valencia Belray Cordova Fortune Monarch	July 28 July 28 July 28 July 28 July 28 Aug. 2	Nov. 25 Nov. 25 Nov. 28 Nov. 28 Nov. 30 Nov. 30 Dec. 1 Dec. 1	Sport of Beautiful Lady Short, M. Pom. Imp. White Valencia Sport of Valencia L. Pom. Cream white, M. Dec. White, M. Pom. Ivory white, L. Dec.	\$5.00 3.00 5.00 3.50 4.00 3.00 4.00 4.50		
·	13-We	ek Varieties				
Acclaim Cameo Cotillion Spangles Swan Carrara (New) Snowdrop Snow Queen White Supreme Yukon	Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 2	Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 8 Dec. 8 Dec. 10 Dec. 10 Dec. 10	Large formal Pom. Ivory white. Med. Dec. M. Semi-formal Pom. S. Pom. L. Anemone M. Dec. S. Pom. M. Formal Pom. L. Anemone M. Single	4.50 3.00 4.50 4.00 3.50 5.00 4.50 4.50 3.25 3.00		
14-Week Varieties						
Snowcrest Garza Satellite Silversmith Snowcap Heirloom Revelation Snow Illini Snowbound (New)	Aug. 4 Aug. 4 Aug. 4 Aug. 7 Aug. 7 Aug. 7	Dec. 15 Dec. 15 Dec. 15 Dec. 15 Dec. 15 Dec. 20 Dec. 25 Dec. 25 Jan. 5	Green eye. S. Pom. M. Anemone Ivory white. M. Formal Pom. Pure white. M. Dec. White. L. Pom. M. Dec. M. Dec. Ivory white. M. Pom. M. Dec.	3.50 3.00 4.50 3.50 3.50 4.00 2.75 3.00 5.00		

YELLOW

Best yellows for August, *Gold Coast; September, *Gold Coast; October, *Mary Hall, Gold Coast; November, Constellation, Yellow Fellow; Thanksgiving, Goldsmith; December, Yellow Cameo; Christmas, Yellow Snow.

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only
	7-W	eek Varieties		
Yel. Chris Columbus Moonlight (New) Honeycomb D.C.P. Polaris Chas. Nye Garland Yellow Spoon Bright Forecast Goldrush Treasure Lemonade Sweepstake	June 25 June 25 June 30 June 30 June 30 June 30 July 5 July 5 July 5 July 8	Oct. 1 Oct. 1 Oct. 1 Oct. 1 Oct. 5 Oct. 5 Oct. 5 Oct. 5 Oct. 10 Oct. 10 Oct. 10 Oct. 10 Oct. 12 Oct. 12	Sport of Chris. Columbus M. Dec. S. Pom. S. Pom. Med. Sgl. Med. Dec. Med. Sgl. Med. Spoon Small formal pompon Small Sgl. S. Pom. Ivory yellow. M. Dec. S. Pom.	\$3.50 5.00 3.00 3.50 4.00 3.25 4.50 3.50 4.00 4.00 4.00 4.00

^{*}Starred varieties must be shaded to flower at this time.



YELLOW—Continued

Variety .	Pinch	Normal Flowering	Description	Price 50 Only			
· · · · · · · · · · · · · · · · · · ·		Date	Description	Jo Omy			
		k Varieties					
Yellow Irene	July 8	Oct. 15	Light lemon yellow. S. Pom.	\$3.00			
Moondrift (New)	July 8	Oct. 20	Ivory yellow. M. Sgl.	5.00			
Rodell Improved	July 8	Oct. 20	Lemon yellow. S. Pom.	2.75			
	9-Was	k Varieties					
Cream Dot		Oct. 25	M. Pom.	3.00			
Gold Coast		Oct. 25	Lemon yellow. M. Pom.	2.75			
Golden Herald		Oct. 25	Golden yellow. L. Dec.	3.00			
Red Dot		Oct. 25	Yellow, red center. M. Pom.	3.50			
Sunup		Oct. 25	Lemon yellow. S. Pom.	4.50			
Yellow Dot		Oct. 25	Bronze center. M. Pom.	3.00			
Yellow Firebird		Oct. 25	Bright lemon. M. Dec.	3.25			
Yellow Arcadia		Oct. 28	Pernet yellow. M. Pom.	3.00			
California Yel. Daisy		Nov. 1	Bright lemon. M. Sgl.	3.00			
Ivory Sea Gull		Nov. 1	Sport of Sea Gull	3.00			
Mary Gold		Nov. 1	Deep lemon, M. Pom, Lemon yellow, M. Pom,	2.75 2.75			
Schneeburg's Daisy		Nov. 1	Golden yellow	2.13			
Jennessarg 5 2 ans,	34., 15	1 107.	sport of Yellow Daisy	3.50			
Starbright	July 14	Nov. 1	Golden yellow. L. Sgl.	3.50			
Yellow Cassandra		Nov. 1	Sport	3.50			
Yellow Daisy		Nov. 1	Golden yellow. M. Sgl.	3.00			
Yellow Doty		Nov. 1	Buff yellow. L. Pom.	3.00			
Yellow Halo (New)		Nov. 1	Sport of Halo	5.00			
Yellow Sea Gull		Nov. 1 Nov. 3	Light lemon yellow, Tall, M. Pom Light lemon yellow, S. Anem.	3.00 2.75			
Juliuy	July 11	1404. 3	Eight lethon yehow. 5. 7them.	2.13			
	10-We	ek Varieties					
Brigadoon		Nov. 5	M. Sgl.	4.50			
Barcarole		Nov. 5	Golden yellow, M. Pom.	3.00			
Constellation		Nov. 5	Yellow, M. Dec.	3.00			
Golden Mensa		Nov. 5 Nov. 5	Tall yellow, L. Pom.	4.00			
Nuggets		Nov. 5	Sport of Mensa Light lemon yellow, S. Pom.	3.00 2.75			
Pixie		Nov. 5	Deep golden yellow, S. Pom.	3.25			
Mason's Yellow		Nov. 10	L. Sgl.	3.25			
Yellow Nagona		Nov. 10	(Calif. Yellow Mensa). Med. Sgl				
Yellow Shasta		Nov. 10	Light lemon sport of Shasta	3.00			
Illini Goldcup	July 20	Nov. 10	Buttercup yellow. L. Pom.	4.00			
11-Week Varieties							
Forty-Niner		Nov. 15	Yellow, M. Pom,	3.50			
Golden Chord	July 24	Nov. 15	Golden yellow. M. Pom.	3.50			
Princeton		Nov. 15	Orange-yellow. M. Dec.	3.25			
Thorobred	July 24	Nov. 15	L. Sgl.	4.50			
Yellow Fellow	July 24	Nov. 15	Deep lemon yellow. M. Dec.	3.00			
Illini Brave		Nov. 15	Lemon yellow. M. Pom.	3.50			
Tacoma (New)		Nov. 15	L. Pom.	5.00			
Susanne Miller		Nov. 15	Buff yellow, L. Anem.	3.25			
Bojangles Illini Sunspot (New)	Aug 1	Nov. 20 Nov. 20	Yellow daisy Bright lemon I Pom	4.00			
Klondike		Nov. 20	Bright lemon, L. Pom. Orange yellow, M. Pom.	5.00			
			orange yenow, ivi. Form,	4.00			



YELLOW-11-Week Varieties Continued

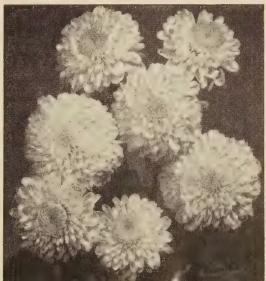
Variety Lollipop Pippin Yellow Highbrow (New) Yellow L. I. Beauty Yellow Nevada	July 24 July 24 July 24	Normal Flowering Date Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20	Description Lemon yellow. M. Pom. Deep lemon. M. Pom. Sport of Highbrow L. Anem. Med. Anem.	Price 50 Only \$4.00 4.50 5.00 3.50 3.00
	12-We	ek Varieties		
Champagne Goldenrod Goldsmith Highlander Illini Gold Illini Sunny (New) Sunnyside Yellow Priscilla Yellow Rolinda Golden Jane Yellow Valencia Yellow Cordova Nosegay Omega Yellow Galaxy (New)	July 28 Aug. 1 July 28	Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 28 Nov. 28 Nov. 30 Dec. 1 Dec. 1	Yellow. M. Sgl. M. Pom. Golden yellow. L. Dec. M. Formal Dec. Deep golden yellow. M. Pom. M. Pom. Golden yellow. M. Pom. Lemon. M. Dec. Light buff yellow. M. Anem. Golden yellow. L. Sgl. Sport of Valencia. Lemon yellow. M. Dec. Yellow. S. Pom. Lemon yellow. M. Pom. Sport of Galaxy	3.50 4.50 3.25 4.50 3.25 5.00 3.00 4.50 3.00 3.00 4.50 3.00 5.00
	13-We	k Varieties		
Golden Harvest Brandywine Cinderella Goldtone Jack-Pot Symmetry Yellow Cameo Yellow Spangles (New) Yellow Swan Yellow Supreme Challenge Corsair	Aug. 1 Aug. 2 Aug. 2	Dec. 5 Dec. 10 Dec. 12 Dec. 12	Deep gold, S. Pom. Orange yellow. M. Dec. Yellow. M. Sgl. Lemon. M. Sgl. Golden yellow. L. Dec. M. Pom. Deep lemon yellow. M. Pom. Sport of Spangles Sport of Swan. Buff yellow. L. Anem. Yellow. M. Sgl. Lemon. L. Pom.	3.50 4.50 3.50 4.00 4.50 4.50 3.00 5.00 3.50 3.25 4.00 4.50

PIPPIN

GOLDEN CHORD

YELLOW CAMEO









Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

YELLOW—Continued

Variety	Pinch		Normal Flowering Date	Description	Price 50 Only
	1.	4-Week	Varieties		
Cream Snowcrest (New)	Aug. 4		Dec. 15	Sport of Snowcrest.	\$5.00
Yellow Riviera			Dec. 15	Golden yellow sport of Riviera	3.50
Yellow Snowcrest			Dec. 15	Sport of Snowcrest,	4.50
December Gold			Dec. 15	Deep golden yellow. M. Dec.	3.00
Sequin	Aug. 4		Dec. 15	S. Pom.	4.00
Shamrock	Aug. 4		Dec. 15	L. Dec.	4.00
Yellow Garza			Dec. 15	Sport of Garza	3.00
Gold Seal (New)	Aug. 7		Dec. 20	M. Single	5.00
Revelry			Dec. 20	Lemon, M. Dec.	4.50
Sunkist	Aug. 7	'	Dec. 20	M. Sgl.	3.50
Sunrise	Aug. 7		Dec. 20	Yellow, M. Pom.	4.50
Vibrant			Dec. 20	Deep lemon yellow, M. Dec.	3.00
Golden Anniversary	Aug. 7		Dec. 25	Yellow. S. Pom.	3.50
Siren			Dec. 25	Lemon yellow. M. Dec.	4.00
Yellow Revelation	Aug. 7	Į.	Dec. 25	Lemon sport of Revelation	3.50
Yellow Snow			Dec. 25	Deep lemon yellow, M. Pom.	3.00
Yuleflame			Dec. 25	Yellow. L. Dec.	3.50
Illini Yellow Snowbound (New)	Aug. 15		Jan. 5	Light lemon sport of Illini Snowbound	5.00

BRONZE AND RED

Best bronze and reds for August, *Firebird; September, Seneca; October, *Bronze Masterpiece; November, Red Rust, Bronze Masterpiece: Thanksqiving, Bronze Goldsmith; December, Deboacir; Christmas, Christmas Star.

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only
7	7-W	eek Varieties		
Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside	June 25 June 25 June 25 June 30 July 1 June 30 June 30 July 2 July 4	Oct. 1 Oct. 1 Oct. 1 Oct. 1 Oct. 5 Oct. 5 Oct. 5 Oct. 5 Oct. 8 Oct. 10	Red Pompon, Rust red. S. Pom. Raspberry bronze. S. Dec. Coral bronze. M. Dec. Light bronze. S. Pom. Mahogany bronze. M. Dec. Reddish bronze. L. Dec. Rust bronze. S. Pom. Orange bronze. S. Pom. Buff bronze S. Sgl. Deep amaranth. M. Dec. Coral bronze. S. Sgl. Salmon bronze. M. Dec. Carmine red. S. Pom. Burnt orange. S. Pom. Burnt orange and salmon. M. Dec.	\$3.50 4.00 5.00 3.50 5.00 4.50 4.00 5.00 4.50 4.00 4.50 4.00
Red Velvet	Julý 4	Oct. 10 Oct. 10	Velvety crimson. M. Dec. Crimson red. M. Dec.	3.25 3.50

^{*}Starred varieties must be shaded to flower at this time.



BRONZE AND RED-7-Week Varieties Continued

		Normal Flowering		Price
Variety	Pinch	Date	Description	50 Only
Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery	July 5	Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 12	Crimson, M. Dec. Orange apricot, M. Dec. Salmon and rosewood, M. Dec. Coral buff, L. Dec. Crimson, S. Pom. Bronze, M. Dec. Apricot buff, M. Sgl. Golden bronze, M. Dec.	\$4.50 4.00 4.00 3.50 4.00 5.00 4.00
	8-Wee	k Varieties		
Cocktail Detroiter Rajah Red Glow Robinhue James Stewart Adelaide Jemima Bronze Mary McArthur	July 8 July 8 July 8 July 8 July 8 July 15 July 15 July 15	Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 20 Oct. 20 Oct. 23	Salmon orange. M. Pom. Reddish bronze. S. Pom. Scarlet red. M. Sgl. Crimson-red. M. Dec. Red. M. Dec. Apricot Gold. S. Pom. Dark reddish bronze. S. Pom. Dark reddish bronze. L. Pom. Sport of Mary McArthur.	4.50 3.50 4.50 3.50 4.00 4.00 3.00 3.50
	9-Wee	k Varieties		
Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Imp. Red Daisy Red Seneca Navaho Seneca Red Daisy Bronze Buckingham	July 20 July 20 July 16 July 14	Oct. 25 Oct. 25 Oct. 25 Oct. 25 Oct. 28 Nov. 1	Bronze, M. Pom. Sport of Pink Dot. Tawny bronze, S. Sgl. Dark reddish bronze, M. Dec. Rosewood, M. Sgl. Orange red. M. Pom. Bronze sport of Yel. Daisy Orange apricot, M. Sgl. (Katoka Red). Sport of Br. Dais (Adachi Red). Sport of Red Dais Red sport of Seneca Deep crimson, M. Pom. Orange red. M. Dec. Deep red. M. Sgl. Light orange bronze, M. Sgl.	

	THIS TABLE INDIC	ATES PRICES FO	K WOKE THAN	50 OF A VARIE	I Y
		ON ONE S	HIPMENT		
50 Only	100-250 Per 100	300-450 Per 100	500-950 Per 100	1000-2450 Per 100	2500-up Per 100
\$2.75	\$5.20	\$4.95	\$4.65	\$4.40	\$4.10
3.00	5.70	5.40	5.10	4.80	4.50
3.25	6.15	5.85	5.50	5.20	4.85
3.50	6.65	6.30	5.95	5.60	5.25
4.00	7.60	7.20	6.80	6.40	6.00
4.50	8.55	8.10	7.65	7.20	6.7
5.00	9.50	9.00	8.50	8.00	7.50
6.25	12.00	11.50	- 11.00	10.50	10.00
7.50	14.50	14.00	13.50	13.00	12.50







FESTIVAL RUSTICON PARAGON

Pompons, Singles and Anemones

Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

BRONZE AND RED—Continued

Variety	Pinch	Normal Flowering Date	Description	Price 50 Only				
10-Week Varieties								
Comanche	July 15	Nov. 2	Orange bronze, M. Pom.	\$3.50				
Beauregard		Nov. 5	Reddish orange, M. Pom.	4.00				
Bittersweet		Nov. 5	Bittersweet red. M. Sgl.	3.00				
Butterscotch		Nov. 5	Golden bronze, M. Pom.	3.50				
Cassandra		Nov. 5	Orange bronze, M. Pom.	3.00				
Magician		Nov. 5	Bronze, L. Pom.	4.00				
Red Rust		Nov. 5	Reddish bronze, M. Dec.	3.00				
Rubicon		Nov. 5	Bronze red. M. Dec.	3.50				
Gypsy	July 15	Nov. 8	Light reddish bronze. S. Anem.	3.00				
Bronze Linda Lou		Nov. 10	Rosewood sport of Linda Lou	3.50				
Bronze Thyra		Nov. 10	Rosewood sport of Thyra. L. Por					
Bronze Tuxedo		Nov. 10	Buff, Med, L. Anem,	3.25				
Chanticleer	/	Nov. 10	Reddish bronze, L. Pom.	4.00				
Chevron		Nov. 10	Orange red. M. Dec.	4.00				
Copperhead	July 20	Nov. 10	Coppery bronze, L. Dec.	4.00				
Europa		Nov. 10	Cardinal red. L. Sgl.	3.50				
Illini Burma		Nov. 10	Light bronze, L. Pom.	4.50				
Mason's Bronze	July 19	Nov. 10	Burnt orange, L. Sgl.	3.25				
Mason's Red	July 19	Nov. 10	Scarlet, L. Sgl.	3.25				
Samovar	July 19	Nov. 10	Reddish bronze. M. Pom.	3.50				
Sylvanna	July 19	Nov. 10	Reddish orange, M. Sgl.	3.00				
The Titan		Nov. 10	Scarlet crimson, L. Anem.	3.25				
Gold Braid	July 19	Nov. 12	Yellow, bronze-red center.					
			M. Pom.	4.50				
Bronze Masterpiece	July 19	Nov. 12	Rosewood bronze, M. Pom.	3.00				
Dark Bronze Masterpiece		Nov. 12	Sport. M. Pom.	3.50				
Illini Rye		Nov. 12	Straw color: M. Pom.	4.50				
Illini Tangier (New)		Nov. 12	Reddish bronze, L. Dec.	5.00				
Paragon		Nov. 12	Red. L. Pom.	4.00				

IMPORTANT: ABSOLUTELY NO CHANGES ON YOUR ORDER CAN BE ACCEPTED WITHIN 30 DAYS OF DELIVERY DATE.



BRONZE AND RED—Continued

w		Normal Flowering		Price
Variety	Pinch	Date	Description	50 Only
		k Varieties		
Bronze Princeton		Nov. 15	Brazil red. M. Dec.	\$3.25
Illini Honey		Nov. 15	Honey amber, S. Pom.	3.50
Mrs. Dewey		Nov. 15	Deep bronze. L. Sgl.	4.00
Red Princeton		Nov. 15	Brazil red. M. Dec.	3.25
Shalimar		Nov. 15	Orange bronze, M. Anem.	4.50
Illini Redhead		Nov. 17	Deep red. S. Pom.	3.50 3.50
Bourbon		Nov. 20 Nov. 20	Rust bronze, M. Sgl. Bronze orange, Button Pom,	3.50
Legal Tender		Nov. 20	Red Gold. M. Dec.	2.75
Rusticon		Nov. 20	Rust red. M. Pom.	3.00
Thelma		Nov. 20	Orange scarlet, M. Pom.	4.50
Carousel		Nov. 23	Coral bronze.	4.00
Red Rolinda		Nov. 23	Red. M. Anem.	3.00
Bronze Minuet		Nov. 23	Bronze Pom.	3.50
Festival	July 28	Nov. 23	Apricot red. S. Sgl.	3.50
	12-Wee	k Varieties		
Bronze Goldsmith	July 28	Nov. 25	Mars orange, M. Dec.	3.25
Falcon		Nov. 25	Reddish orange. M. Pom.	4.00
Yolanda	, _	Nov. 25	Orange bronze, M. Anem.	3.50
Wanakah (New)		Nov. 25	Sport of Hasegawa Pink	5.00
Apricot Valencia		Nov. 28	L. Sgl.	3.00
Crimson Valencia		Nov. 28	L. Sgl.	3.50
Indian Head		Nov. 28	Reddish apricot. M. Sgl.	4.00
Amberina		Dec.	Orange bronze, M. Dec.	4.50
Galaxy	July 28	Dec. 1	Orange scarlet, M. Sgl.	3.50
		k Varieties		
Bronze Enchantress		Dec. 5	Sport of Enchantress	3.25
Dazzler	July 28	Dec. 5	Coppery bronze.	
B. I		D = E	L. Sgl. Anem. center	4.50
Debonair		Dec. 5	Crimson red. L. Pom.	3.00
Mahogany Viking		Dec. 5	Mahogany bronze, M. Sgl.	3.50
Bronze Supreme		Dec. 10	Buff apricot. L. Anem. Mandarin red. M. Pom.	3.25
Cavalcade		Dec. 10	Crimson red. M. Dec.	3.50 4.50
Holiday		Dec. 10	Wide-petaled crimson red. M. Sg	
Pageantry		Dec. 10	Red. M. Pom.	4.00
Red Supreme		Dec. 10	Sport of Dk. Pk. Supreme.	1.00
	,g. ,		L. Anem.	3.50
Christmas Star		Dec. 12	Scarlet red. M. Sgl.	3.50
Bronze Minstrel		Dec. 13	Coral sport of Minstrel, Pom.	3.50
Dark Bronze Minstrel (New)	Aug. I	Dec. 13	Reddish bronze sport of Minstrel	. 5.00
	14-Wee	k Varieties		
Bronze Riviera	Aug. 1	Dec. 15	Sport of Riviera	3.50
Christmas Greeting		Dec. 15	Crimson-scarlet. M. Dec.	4.00
Claret		Dec. 15	Brilliant red. M. Sgl.	4.50
Sarong		Dec. 15	Crimson, M. Sgl.	3.25
Topaz		Dec. 15	Orange bronze. M. Sgl.	4.50
Merrymaker		Dec. 20	Scarlet, M. Sgl.	3.50
Poinsettia	Aug. I	Dec. 20	Scarlet red. L. Sgl.	4.50
				15



Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

PINK

Best pinks for August, *Carolyn Yosick; September, *Carolyn Yosick; October, *Masterpiece, Carolyn Yosick; November, Thyra, Masterpiece; Thanksgiving, Minuet; December, Riviera; Christmas, Minstrel.

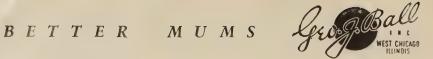
Pinch	Normal Flowering Date	Description	Price 50 Only
7-Weel	Varieties		
June 25 June 25 June 25 July 4 July 8 July 8 July 8 July 8 July 8	Oct. 1 Oct. 1 Oct. 10 Oct. 12	Light pink. L. Dec. Lavender. M. Pom. Lavender-Pink. M. Dec. Amaranth. Pom. Salmon rose, M. Dec. Lavender pink. Dec. Light lavender. M. Pom. Salmon rose. M. Pom. Dark pink. M. Dec. M. Spoon Dark lavender. S. Dec. Magenta pink. M. Sgl. Lavender pink. M. Sgl. Coppery rose Pom. Tall Shrimp pink. S. Dec. Light lavender. L. Dec. Lavender rose. S. Pom. Dark lavender. S. Pom. Deep pink. S. Sgl.	\$3.50 3.00 3.25 3.50 5.00 4.50 3.50 4.00 4.50 3.50 4.00 4.00 4.00 3.25 3.50 3.50 4.00
8-Weel	Varieties		
July 10 July 10 July 10 July 10 July 8 July 15 July 14 July 14	Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 20 Oct. 23 Oct. 23 Oct. 23	Deep lavender, S. Pom. Lavender, L. Pom. Amaranth, M. Pom. Lavender, S. Pom. Lavender, S. Dec. Deep rose pink, M. Pom. Light orchid, S. Pom. Pink, shaded bronze, S. Pom.	3.00 5.00 5.00 3.00 3.00 3.50 3.50
9-Weel	Varieties		
July 14 July 14 July 14 July 14 July 14 July 16	Oct. 25 Oct. 25 Oct. 25 Oct. 25 Oct. 25 Oct. 25 Nov. 1 Nov. 1 Nov. 1 Nov. 1 Nov. 1 Nov. 1	Lavender, L. Anem. Light orchid pink, S. Pom. Light lavender, M. Pom. Light lavender, M. Sgl. Light pink, M. Pom. Deep pink, M. Sgl. Shrimp pink, M. Pom. Pink, M. Sgl. Light lavender, L. Pom. M. Sgl. Coral pink, M. Sgl. Rose, M. Sgl.	3.25 3.50 3.00 3.25 3.00 4.00 5.00 3.50 3.50 5.00 3.50
	7-Weel June 25 June 25 June 25 July 4 July 8 July 8 July 8 July 8 July 8 July 8 July 10 July 10 July 10 July 10 July 10 July 10 July 14 July 16	Pinch Plowering Date	Pinch Date Description Pinch Date Varieties

^{*}Starred varieties must be shaded to flower at this time.



PINK—Continued

		Normal Flowering		Price				
Variety	Pinch	Date	Description	50 Only				
10-Week Varieties								
Dreamboat Dark Bulkeley Dark Linda Lou Linda Lou Miss Clarinda Pandora Soprano Thyra Tuxedo Masterpiece Memorial Rose Masterpiece Salmon Masterpiece Taffeta	July 20 July 20 July 20 July 20 July 20 July 20 July 19 July 19 July 19 July 22 July 22 July 22 July 22 July 22	Nov. 5 Nov. 8 Nov. 10 Nov. 12 Nov. 12 Nov. 12 Nov. 12 Nov. 12 Nov. 12	Lavender pink, M. Pom. Dark rose pink, M. Pom. Dark lavender sport of Linda Lou Pink, yellow cushion. M. Anem. Light lavender. M. Pom. Luminous pink. L. Dec. Pink. L. Sgl. Lavender. M. Pom. Pink. L. Anem. Tourmaline pink. M. Pom. Lavender. M. Anem. Rose pink sport of Masterpiece. Salmon pink sport of Masterpiece Deep pink. M. Dec.	3.00 4.50 4.50 3.50 3.00 3.25 3.00 4.50 3.50				
	11-We	ek Varieties						
Brocade Dark Norma Freida Orchid Beauty Almega (New) Dark L. I. Beauty (New) Evening Star Grand Slam Majorette Pink Long Island Beauty Pinky Vivacious Lady Minuet	July 25 July 25 July 22 July 22 July 24	Nov. 15 Nov. 15 Nov. 15 Nov. 15 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20	Shell pink, M. Sgl. Deep lavender, L. Anem. Light lavender, L. Anem. Orchid, golden cushion, M. Anem Lavender pink, L. Pom. Imp. Pink L. I. Beauty Dark lavender, M. Anem. Silvery shell pink, L. Sgl. Pink, M. Anem. Pink sport of L. I. Beauty Pink, M. Dec. Spoon type novelty, Mauve to rose pink, M. Pom.	3.00 3.25 3.00 5.00 5.00 4.50 4.50 4.00 4.50 4.50 3.50				
	12-We	ek Varieties						
Beautiful Lady Hasegawa Pink Princess Dark Valencia Dubonnet Valencia (New) Orchid Valencia Salmon Valencia Valencia Heritage	July 28 July 28 Aug. 1 Aug. 1 July 28 July 28 July 28 July 28	Nov. 25 Nov. 25 Nov. 25 Nov. 28 Nov. 28 Nov. 28 Nov. 28 Nov. 28 Dec. 1	Lavender. L. Anem. Lavender. M. Sgl. S. Pom. Deep pink. M. Sgl. Deep orchid sport of Valencia Orchid sport of Valencia. Salmon sport of Valencia Orchid pink. L. Sgl. Dark pink. L. Pom.	3.00 3.50 4.50 3.00 5.00 4.50 4.50 3.00 4.50				
13-Week Varieties								
Dark Enchantress	Aug. 1	Dec. 5	Deep pink sport of Enchantress.	2 50				
Enchantress Dark Pk. Supreme Debutante Illini Camille Imp. Dark Supreme Light Pink Minstrel (New) Minstrel	Aug. 2 Aug. 1 Aug. 1 Aug. 1 Aug. 1	Dec. 5 Dec. 12 Dec. 10 Dec. 10 Dec. 10 Dec. 13 Dec. 13	L. Anem. Deep pink. L. Anem. Lavender. L. Anem. Large pink single. Light pink. M. Sgl. Sport of Dk. Pk. Supreme Sport of Minstrel Lavender pink. M. Pom.	3.50 3.25 3.25 4.00 4.00 3.50 5.00 3.50				



Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone. Size of flower is indicated by S—Small; M—Medium; L—Large. Pinching and flowering dates given here are for normal flowering without shading or lights.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

PINK—Continued

14-Week Varieties

Coronet		Dec. 15 Dec. 15	Dark pink, M. Sgl. Deep lavender sport of Riviera. M. Dec.	\$4.00 3.50
Riviera Serrated Riviera (New) Defiance Medallion Pink Treasure Island Rosalind Rose Medallion (New)	Aug. 10 Aug. 7 Aug. 7 Aug. 15 Aug. 5	Dec. 15 Dec. 15 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 20	Luminous pink, M. Dec. Sport of Riviera, True orchid pink, M. Dec. Pink, M. Pom, Light lavender, M. Dec. Rose pink, M. Sgl. Sport of Medallion	3.00 5.00 3.50 4.00 2.75 3.00 5.00

THIS TABLE INDICATES PRICES FOR MORE THAN 50 OF A VARIETY ON ONE SHIPMENT

50 Only	100-250 Per 100	300-450 Per 100	500-950 Per 100	1000-2450 Per 100	2500-up Per 100
\$2.75	\$5.20	\$4.95	\$4.65	\$4.40	\$4.10
3.00	5.70	5.40	5.10	4.80	4.50
3.25	6.15	5.85	5.50	5.20	4.85
3.50	6.65	6.30	5.95	5.60	5.25
4.00	7.60	7.20	6.80	6.40	6.00
4.50	8.55	8.10	7.65	7.20	6.75
5.00	9.50	9.00	8.50	8.00	7.50
6.25	12.00	11.50	11.00	10.50	10.00
7.50	14.50	14.00	13.50	13.00	12.50

Special Collections

Any of the four collections listed at right are available at the reduced price shown if you leave the choice of varieties up to our propagator. In ordering any of these collections, please specify:

- 1. Whether you want greenhouse or garden varieties.
- 2. About when you want them to flower.
- 3. Colors and flower types you want.
- 4. Time of shipment.

Our propagator reserves the right to make the choice of varieties. Your order will be filled with good varieties and the cuttings you receive will be properly labeled as to variety. And of course, only our usual top grade cuttings will be shipped. The reduction in price is made only because our propagator can select varieties that are in good supply at the time you want shipment.

- A. 250 Rooted Cuttings.....\$14.25 50 each of 5 varieties.
- B. 500 Rooted Cuttings...... 25.50 50 each of 10 varieties, or
- 100 each of 5 varieties.
- C. 1000 Rooted Cuttings...... 48.00
 - 50 each of 20 varieties, or
 - 100 each of 10 varieties, or
 - 200 each of 5 varieties
- D. 2500 Rooted Cuttings......112.50
 - 50 each of 50 varieties, or
 - 100 each of 25 varieties, or
 - 250 each of 10 varieties, or
 - 500 each of 5 varieties.



Garden (HARDY) Varieties

NEW DEPETRIS VARIETIES

Orloma. Luminous apricot bronze, full decorative type. Bushy cushion habit of growth and very free and durable. Early, blooming September 15.

Madame Cadillac. Pictured on back cover. Mulberry wine red, solid large Pompon type of great substance. Strong bushy and compact habit. Blooms by September 20 and lasts well into late October.

Dwight Douglas. Dazzling golden yellow decorative. Medium tall and very free and excellent for cutting. Blooms October 5 to 8.

Orsona. Reddish bronze, full decorative type. Very good bushy growth. Very desirable and showy. Blooms September 20-25.

Orpheus. Brilliant Roman red, large Pompon with perfect full form and very hard substance. Excellent strong and long stems with perfect spray formation. Very vigorous, clean, upright growth. Matures October 10-12. This variety is equal if not superior to any cloth house red now in existence. Blooming nicely for early October and can be shaded to bloom in late August and early September without fading.



ORLOMA
New apricot bronze decorative.

Miguel. Radiant raspberry red decorative type with good keeping qualities. Good growth and stem. An excellent cut flower. Blooms October 8-10.

Genista. Very early solid yellow Pompon of good size. Dwarf bushy habit. Blooms from the end of August but in full bloom by September 12.

Prices above 7 varieties, each: 50 cuttings for \$**7.50**; 100-250, \$**14.50** per 100; 300-450, \$**14.00** per 100; 500-950, \$**13.50** per 100; 1000-2450, \$**13.00** per 100; 2500-up, \$**12.50** per 100.

WHITE

Types are abbreviated as follows. Pom.—Pompon; Dec.—Decorative; Sgl.—Single. Size of flower is indicated by S—Small; M—Medium; L—Large. P—Indicates varieties suitable for pots. C—Indicates varieties suitable for cutting.

Note carefully instructions for ordering on page 2. No orders for less than 50 rooted cuttings of a variety accepted. Minimum total order, 500 cuttings.

var	iety accepted. Minimum total order, 500 cuttings.		
	Name and Description Height	Flowering Date	Price 50 Only
C	Candlelight. Cream-white, yellow center. Dec	Sept. 15	\$3.00
			•
	White Cushion. White, shaded pink at center. CushionShort	Sept. 15	3.00
	D. D. Ahrens. Free flowering, pure white. Dec	Sept. 10	3.00
		Sept. 10	4.00
PC	Chris Columbus. White with yellow buds. Large Dec	Sept. 15	3.50
	Calcite. White with pale yellow center. Heavy bloomer. DecMed.	Sept. 15	3.00
	Drifted Snow. A mound of double white flowers, shaded yellow. DecMed.	Sept. 15	3.00
P	Polar Ice. Pure white, double, 3 in. flowers. L. Dec	Sept. 15	3.50
	White Bounty. White with cream center. Button	Sept. 15	3.50
	White Tower, Cream, L. Pom	Sept. 15	3.50
	White Wonder. Ball-shaped white, L. Pom	Sept. 25	3.00
_	Shalimar (H), Cream, L. Pom	Sept. 25	4.50
_	White Cloud. White with delicate pink shading. Dec	Sept. 25	
		_ '	3.50
	Pepita. Eggshell white, darker center. ButtonMed.	Sept. 28	3.50
	Snow Fall. White, slight cream center. DecMed.	Oct. 1	3.50
	Ermine. Large, wide petaled ivory white. L. Dec	Oct. 1	4.00
	Spindrift (New), White, L. DecMed.	Oct. 1	6.25
C	Winterset (H), Large white DecMed.	Oct. 1	3.25
	Avalanche, Cream, L. Dec	Oct. 5	3.25
С	Fragrant. Double white; long stems. Dec	Oct. 5	3.25
	Horizon. White. PomMed.	Oct. 5	4.50
	Lyric, White. Sgl	Oct. 5	4.50
_	Youdath's White. Large flowered, double white. L. Dec	Oct. 5	
	Touagth's white. Large Howered, double writte. L. Dec	OC1. 5	3.00



BETTER MUMS Großball FOR FLORISTS Garden (HARDY) Varieties

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	Will L—Continued		Flowering	Price
	Name and Description	Height	Date	50 Only
	·	_	Oct. 5	\$4.00
	Monogram. White, single		•	4.00
	Classic. White Button		Oct. 10	
	Maestro. White Pom.		Oct. 10	4.00
	Renown. White daisy	Med.	Oct. 10	4.00
PC	White Spoon. Pure white	Med.	Oct. 10	3.00
	Silverplate. Productive outdoor variety. Dec	Med.	Oct. 12	4.00
	Silver Ball. White. Pom.	Tall	Oct. 15	2.75
	Irene. White, yellow center. Button	Med.	Oct. 15	3.00
	Norona. White, S. Pom,		Oct. 15	4.50
	YELLOW			
			Flowering	Price
	Name and Description	Height	Date	50 Only
	Butterball. Butter yellow. Low, compact plant. Button		Sept. 1	\$3.00
P	Early Gold. Golden yellow. Pom.		Sept. 5	3.50
	Golden Hours. Chrome yellow. Pom.		Sept. 8	3.25
			Sept. 12	7.50
	Genista (New) Canary pom.			4.50
	Ruthann Lehman. Canary, L. Pom.		Sept. 12	
P	Pomponette. Excellent early yellow. Pom		Sept. 15	3.00
295	Sunapee, Deep lemon, Pom.	I all	Sept. 15	3.25
	Yellow Supreme (H). Bright lemon. Cushion		Sept. 15	3.00
P	Yellow Chris Columbus. Bright lemon. L. Dec.		Sept. 15	3.50
	Yellow Avalanche. Light lemon. L. Dec		Sept. 15	3.25
	Yellow Cushion. Light yellow. Cushion		Sept. 15	3.00
P	Early Yellow. Deep lemon. Button	Short	Sept. 15	3.00
	Defiance (H). Golden yellow, Quilled petals. Dec	Tall	Sept. 15	3.50
	Golden Carpet. Golden yellow. Pom	Short	Sept. 15	4.50
	Ming. Orange yellow pom		Sept. 18	5.00
P	September Sunshine. Semi-double, bright yellow		Sept. 20	3.25
_	Wychwood. Canary yellow. L. Pom		Sept. 20	3.25
	Canary Wonder. Canary yellow. Pom		Sept. 25	5.00
C	Charles Nye. Deep lemon. L. Pom	Tall	Sept. 25	3.25
	Honeycomb. Golden yellow. Pom.		Sept. 25	3.00
•	Lee Powell. Chinese yellow. L. Dec.		Sept. 25	5.00
Б	Moonlight. Disbud. Bright yellow			5.00
r			Sept. 25	
	Tangerine. Deep orange. L. Dec.		Sept. 25	3.25
	Flaxen Beauty. Golden yellow. L. Dec.		Oct. 1	5.00
	King Midas. Light lemon yellow. L. Dec		Oct. 1	3.00
	Chiquita. Deep lemon. Pom	Med.	Oct. 1	3.25
	Dwight Douglas (New), Golden yellow, L. Dec		Oct. 5	7.50
	Garland. Lemon. Sgl	Short	Oct. 5	4.50
	James Eadie. Deep chrome. L. Pom		Oct. 5	3.25
C	Polaris. Golden buff. Sgl	Med.	Oct. 5	4.00
P	Mrs. Rotan. Deep chrome. L. Dec		Oct. 5	3.25
	Vanguard. Golden. L. Pom	Med.	Oct. 5	5.00
P	Yellow Spoon. Light yellow Spoon variety	Med.	Oct. 10	3.50
	Golden Spoon. Golden yellow	Med.	Oct. 10	3.00
	Yellow Blanket, Bright lemon, Button		Oct. 10	3.25
	Bright Forecast. Lemon Pom		Oct. 10	4.00
P	Goldrush. Lemon yellow Sgl		Oct. 10	4.00
•	Treasure. Golden. Pom		Oct. 10	4.50
D	Lemonade. Ivory yellow. Pom		Oct. 12	4.00
P	Sweepstake. Lemon. Pom		Oct. 12	
				4.00
	Judith Anderson. Golden yellow. Button		Oct. 15	3.00
	Rodell Imp. Light Iemon. Button	/Med.	Oct. 15	2.75
	Yellow Irene. Light lemon. Button		Oct. 15	3.00
	Old Gold. Golden Pom	Med.	Oct. 15	3.25



BETTER MUMS Großball FOR FLORISTS Garden (HARDY) Varieties

BRONZE AND RED							
	Name and Description	Hataka	Flowering Date	Price 50 Only			
	Early Harvest. Mahogany-orange. Cushion	Height Short	Sept. 8	\$3.25			
	Harbinger. Golden bronze. Dec.	Short	Sept. 8	3.25			
P	Early Bronze. Orange bronze. Button.	Short	Sept. 8	3.00			
C	W. P. Snyder. Apricot-orange. L. Pom.	Med.	Sept. 10	3.50			
	Autumn Song. Wine-rose. Dec	Med.	Sept. 10	3.25			
C	Red Gold. Red and gold. Button	Med.	Sept. 15	3.25			
	Orloma (New). Apricot bronze. Dec	Med.	Sept. 15	7.50			
	September Bronze. Golden bronze. Frost resistant. Button	Med.	Sept. 20	3.00			
	Goblin. Golden bronze. Pom	Tall	Sept. 20	3.00			
	Red Glow. Dark red. Pom.		Sept. 20	3.50			
	Orsona (New), Red and bronze, Dec.		Sept. 20	7.50			
	Scarlet Crimson. Bright red. Dec.		Sept. 20	3.25			
	Mme. Cadillac (New). Raspberry wine	Short	Sept. 20 Sept. 25	7.50 5.00			
	Champion Cushion. Deep bronze. Cushion.		Sept. 25	3.00			
	Commander Cushion. Best red Cushion.		Sept. 25	3.00			
	Mahogany Cushion. Jasper red.		Sept. 25	3.50			
	Marionette, Rust red. Pom.		Sept. 25	4.00			
	Holiday (H). Golden bronze Pom		Sept. 25	5.00			
	Remembrance. Deep carmine. L. Dec		Sept. 28	3.50			
C	Kathleen Lehman, Orange bronze, L. Dec	Med.	Sept. 28	4.50			
	Fiesta. Orange rust Pom		Oct. 1	3.50			
	Jubilee (H). Crimson. Pom		Oct. 1	6.25			
,C	Magnificent. Plum red. L. Dec.		Oct. 1	3.50			
	Red Riding Hood. Bright red; frost resistant. Dec		Oct. 1	3.25			
CD	Sam Williston. Deep red. Cushion		Oct. 1	3.00			
CP	Bonfire. Bright red. Dec.		Oct. 1	3.50			
	Mogul. Orange rust. Pom		Oct. 1 Oct. 1	5.00 5.00			
	Cardinal Spoon. Cardinal red, yellow tube. Spoon		Oct. 1	3.50			
	Firecracker. Mahogany. Dec		Oct. 5	4.50			
	Avalon. Orange bronze. Pom		Oct. 5	5.00			
С	Cydonia. Mahogany red. L. Dec		Oct. 5	3.00			
	Meditation. Jasper red. L. Pom		Oct. 5	3.25			
	September Cheer. Cherry red. Sgl		Oct. 5	3.00			
	Burgundy. Wine red. L. Dec		Oct. 5	3.00			
	Ruby Pompon. Ruby crimson. Pom	Med.	Oct. 5	3.00			
P	Red Velvet. Dark crimson, L. Dec		Oct. 5	3.25			
P	Mona. Rust bronze. Pom		Oct. 5	4.00			
	Courageous. Dark ruby. Frost resistant. L. Dec	Med.	Oct. 5	3.25			
P	Mrs. DuPont. Coral buff. L. Dec	Tall	Oct. 5	3.50			
	Beacon. Coral apricot. L. Dec	Tall	. Oct. 8	4.00			
	Panorama. Orange rust. Dec	Tall	Oct. 8	5.00			
	Aviator, Copper. Pom	Med.	Oct. 8	3.25			
CP	Amber Glow, Rosy bronze, L. Dec	<u>I</u> all	Oct. 8	3.25			
	Miguel (New), Raspberry red, Dec	Iall	Oct. 8	7.50			
	Mayford's Triumph. Scarlet bronze. L. Inc	I all	Oct. 8	3.50			
_	The Chief. Scarlet and gold. Dec	/vied,	Oct. 10	3.00			
P	James Stewart. Apricot-gold. Pom	Tall	Oct. 10	4.00			
	Huntsman. Scarlet orange. L. Dec	Mod	Oct. 10 Oct. 10	3.50			
	Caravan, Salmon bronze, L. Dec	Med.	Oct. 10	4.50 3.50			
	Blueblood. Amaranth red. Dec	Toll	Oct. 10	4.50			
DC	Coming Power areas I Pom	Med	Oct. 10	3.50			
20	Carnival. Burnt orange. L. Pom	Tall	Oct. 10				
	Carmine Queen. Carmine. L. Pom	Tall	Oct. 10	4.00 7.50			
	Orpneus (New), Roman rea, L. Politi,	ran	000.10	7.50			



Garden (HARDY) Varieties

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	BRONZE AND RED—Continued			
	·		Flowering	Price
-	Name and Description	Height	Date	50 Only
P	Bamboo. Buff orange. Sgl	I all	Oct. 10	\$4.00 4.00
P	Calico. Coral bronze. Sgl	I all	Oct. 10 Oct. 10	4.00
	Fireside, Burnt orange. Dec	1 all	Oct. 10	5.00
	Nytoda. Golden apricot. Sgl	Med.	Oct. 12	4.50
	Admiral, Dark red. Dec.	Med.	Oct. 12	4.00
D	Fashion. Salmon and rosewood. Dec	Med	Oct. 12	4.00
P	Nokomis. Reddish bronze. L. Dec	Med.	Oct. 12	4.00
	Nocturne Crimson, Pom	Med	Oct. 12	4.00
	Robinhue. Dark red. L. Dec.	Tall	Oct. 15	4.00
C	Bronze Pyramid. Orange bronze. L. Dec	Tall	Oct. 15	3.25
	Detroiter. Red-bronze. Pom	Tall	Oct. 15	3.50
P	Carmelita. Apricot bronze. L. Dec	Tall	Oct. 15	4.00
	Cocktail. Salmon bronze. Pom	Med.	Oct. 15	4.50
	Rajah. Scarlet. Sgl	Med.	Oct. 15	4.50
	Kajan, Scariot, Sg			
	PINK			
			Flowering	Price
	Name and Description	Height	Date	50 Only
	Gladness. China rose. Dec.	Short	Aug. 28	\$3.50
	Cecil Beed, Deep lavender, Dec	/Mea.	Sept. 1	5.00
- C	Dr. Longley. Rose pink. Dec.	Med.	Sept. 1	4.00
	Salmon Precose. Salmon pink. L. Dec	Short	Sept. 1	3.50
	Welcome. Mallow-purple. Sgl	/Med.	Sept. 1	3.00
	Purple Star. Star appearance. Dahlia purple. Pom		Sept. 5	3.00
	Barbara Small. Pinkish lavender. Pom		Sept. 10	3.25
C	Nye's Favorite, Lavender, Dec	/Med.	Sept. 10	3.50
	Orchid Helen. Orchid lavender. Dec	Med.	Sept. 10	4.50 3.25
	Chippewa. Bright purple. L. Dec	/vied,	Sept. 15	6.25
	Royal Robe, Purple. Dec	/Med.	Sept. 15	3.25
C	Violet. Amaranth pink, Pom	Med.	Sept. 15 Sept. 20	3.50
	Fairbow. Lavender pink. Pom	Med.	Sept. 20	4.50
	Tapestry. Bright pink, L. Dec	Med.	Sept. 20	3.00
	Alert. Dark purple. L. Dec	Med.	Sept. 20	3.50
	Major Cushion. Lavender. Cushion	Short	Sept. 25	3.00
	Olive Longland. Apricot-salmon. L. Dec.		Sept. 25	2.75
C	Spellbound, Lavender-pink, Dec	Med	Sept. 25	3.25
	Capt. J. Smith. Lavender-pink Cushion		Sept. 25	3.00
C	Pink Beauty. Salmon pink. Dec		Sept. 25	3.00
	September Dawn. Rose pink. Dec	Med.	Sept. 25	3.00
	Imp. Early Wonder. Deep lavender. Pom		Sept. 25	3.00
	Rosita. Lavender rose. Button		Sept. 28	3.25
	Pink Opal, Persian rose, Pom	Med.	Sept. 28	5.00
C	Betty. Pink, rose center. L. Dec		Sept. 28	3.25
Ŭ	Misty Maid. Light pink. Dec	Med.	Sept. 28	3.50
	Malinda Brown. Lavender rose Pom	Med.	Sept. 28	6.25
C	Pat. Lehmann. Peach pink, Dec	Tall	Sept. 28	4.50
	Fascination, Lavender pink, L. Dec	Med.	Öct. 1	6.25
	Myrtle Walgreen. Amaranth purple. L. Pom	Med.	Oct. 1	3.50
P	Tiffany Rose, Deep rose, Sgl	Med.	Oct. 1	3.00
	Alex. Cummings. Deep rose. L. Dec	Tall	Oct. 3	6.25
	Enterprise, Amaranth. Pom	Tall	Oct. 5	5.00
	Pink Surprise. Lavender. Dec	Tall	Oct. 5	3.50
P	Lavender Lady, Lavender pink, Dec	Tall	Oct. 5	3.50
	Dream Girl, Light lavender, Pom	Med.	Oct. 10	3.50
	Argonne. Dark lavender. Pom	Med.	Oct. 10	3.50



Garden (HARDY) Varieties

PINK—Continued

Name and Description Height	Flowering Date	Price 50 Only
Courtier. Lavender Pink. Dec	Oct. 10	\$4.50
Lassie. Dark pink. L. Dec	Oct. 10	4.50
Orchid Spoon. Orchid lavender. Spoon	Oct. 10	3.50
Rose Spoon, Lavender rose, Spoon	Oct 10	3.00
Masquerade, Lavender rose. Pom	Oct. 10	3.50
Joybringer. Salmon rose. DecShort	Oct. 10	4.00
Winsome. Lavender purple. L. Ref	Oct. 10	3.50
Sweetheart. Light lavender. Sgl	Oct. 10	4.00
Serenade, Magenta Sgl	Oct. 10	4.00
Elizabeth Hood. Lavender pink. L. Dec	Oct. 12	5.00
Salute. Deep orchid. Sgl	Oct. 12	4.00
C Allegro. Shrimp pink. PomTall	Oct. 12	3.25
Adagio. Raspberry rose. PomTall	Oct. 12	4.00
Dawn Rose, Grenadine pink. L. Dec	Oct. 15	3.50
Symphony. Mauve and lavender. DecTall	Oct. 15	3.00
P Jewell. Lavender pink. PomMed.	Oct. 15	3.00
P Dark Jewell. Lavender pink. Pom	Oct. 15	3.00

THIS TABLE INDIC	ATES PRICES FO	OR MORE THAN	50 OF A VARIETY				
ON ONE SHIPMENT							
100 350	200 450	500.050	1000 3450				

50 Only	100-250 Per 100	300-450 Per 100	500- 95 0 Per 100	1000-2450 Per 100	2500-up Per 100
\$2.75	\$5.20	\$4.95	\$4.65	\$4.40	\$4.10
3.00	5.70	5.40	5.10	4.80	4.50
3.25	6.15	5.85	5.50	5.20	4.85
3.50	6.65	6.30	5.95	5.60	5.25
4.00	7.60	7.20	6.80	6.40	6.00
4.50	8.55	8.10	7.65	7.20	6.75
5.00	9.50	9.00	8.50	8.00	7.50
6.25	12.00	11.50	11.00	10.50	10.00
7.50	14.50	14.00	13.50	13.00	12.50

SPECIAL COLLECTIONS of GARDEN VARIETIES

SPECIAL OFFER No. 1

SPECIAL OFFER No. 2

SPECIAL OFFER No. 3

500 rooted cuttings, our selection; 50 each of 10 taller varieties for cutting. **\$25.00**.

500 rooted cuttings, our selection; 50 each of 10 medium to short varieties for pots or bedding. **\$25.00.**

500 rooted cuttings, our selection; 50 each of 5 varieties for cutting, 50 each of 5 varieties for bedding. **\$25.00**.

Garden Varieties for Pot Plants

Consider the Garden Mums as spring pot plants. The collection described at the left consists of varieties particularly suited to spring pot plant forcing. The obvious selling point is that these flowering pot plants may be pinched back and planted outdoors for fall flowering in the garden.

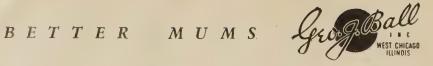
See page 41 for complete directions for handling Garden varieties for May pot plants.

POT PLANT COLLECTION Special Offer No. 4

500 Rooted Cuttings for Mother's Day Our Selection

Price, 500 cuttings.....\$25.00

IMPORTANT: ABSOLUTELY NO CHANGES ON YOUR ORDER CAN BE ACCEPTED WITHIN 30 DAYS OF DELIVERY DATE.



Chrysanthemum Culture

By Vic Ball

TRENDS

Mums, along with Snaps, are the mainstay of the cool house crops, both for retail and market growers. The many interesting new developments in Mum culture are doing much to help growers produce better Mums with less effort-and for a better return.

Highlights:

1. Out-of-season Mums are spreading the Mum crop out over a longer period—away from the gluts. Many retail growers are reaching into August-September flowering with black cloth shading. For the wholesale specialist and larger retail growers, spring and summer flowering has much to offer. Three-crops-a-year production is for the specialist, and is being done more than ever before. It is a close, efficient rotation, a steady work load (plant-pick every month of the year), and high return per foot, \$3.00 or better. We are planning such crops for many growers already; write if interested.

We also mail a monthly circular giving schedules, varieties, etc. for off-season Mum planting—in the northern states.

Full details on off-season flowering both pot and cut flower

Mums will be found on page 28.

2. Direct benching, rapid growth. Growers are realizing the remarkably rapid headway a good soft cutting will make in good soil. Instead of 6-7 months, modern growers bench cuttings direct, grow single stemmed (no pinch)—and cut excellent Pomps and Mums in as little as 90 days after planting (longer in winter). Under favorable conditions, we have had cuttings grow to 33 inches in 38 days. Lots less work, too!

3. Labor-saving angles. Are you using them? In our ex-

perience the following are generally practical:

Hose-boy watering—reel-type device that pulls sled up the

walk. It does the job! Write for details.

Liquid feeding. Injectors such as Smith Fertil-ade, Smith Equipment & Supply Co., 1615 N. Central Ave., Chicago, Ill., or Delta Dispenser, Delta Dispenser Mfg. Co., 8529 E. 11th St., Downey, California; or with Hozon, Plant Marvel, 12050 Parnell Ave., Chicago 38, Ill.

We have been having excellent results simply using dry fertilizers in our insecticide sprayer—with tip removed from nozzle. Fast and cheap. We use German potassium nitrate at 18-20c per lb. (Schramm Greenhouse Supply Co., Lee &

Meet "Hoseboy"—in our several months' experience with it, it seems a practical way to water Mums mechanically. The 150 ft. of hose is laid down the walk. At the far end is the "sled" two nozzles rising from it. As drum (foreground)

reels hose up, the sled is

slowly drawn in. It works!

Henry Jacobsen in the

photo.



Overhead pipe supports for "igloo" type sateen type sateen shading. The inch pipe cross members rest on edge of bench (welded to a 12 inch piece of 1x1 angle iron). #18 wires are stretched lengthwise across top of framework. Sateen lies on the wires. In the morning, it is picked up from the sides to form a long roll at top. Advantages: by far faster and easier than other ways, and saves cloth, too!



Oakton Sts., Des Plaines, Ill.) Dilution: 2 lbs. potassium nitrate per 20 gallons of water per 500 sq. ft.

Igloo Shade. Applying sateen over an igloo shaped frame covering 2-3 beds is much less work, takes less cloth, and is easier on the cloth, too. See photo above.

Stem cleaner. Whips leaves off lower stem in a flash!

Supports. Single layer of wire-string moved up regularly does the job OK. Why use 2-3 layers? New type all wire mesh being used in California looks promising—eliminates string and stringing. Write Northern California Hardware and Steel Co., 209 Mississippi St., San Francisco 7, California.

GOOD MUM CULTURE

What's a Good Mum Soil?

It makes very little difference whether your soil is sandy or heavy, yellow or black. The tip-off in picking soils for greenhouse use: is it producing good stands of field crops? A soil that grows good corn or wheat will grow good Mums-if handled right. Of course, sandy soils need a lot more water and more frequent and heavier feeding.

Most any field soil will do a better job of growing if 1½ inches of rotted cattle manure or of peat is plowed into it. If a soil seems "tight" and poorly aerated, and gives retarded, hard growth, add 2 inches of peat or manure, or a combination. We have seen 2 inches of peat open a very heavy, tight soil so well as to grow excellent Mums. Where soils are used repeatedly, an inch, or better half an inch, of peat or manure can be added between each crop to advantage. Soils can be made sticky with too much peat!

Most soils will benefit by the addition of 5 lbs. per 100 sq. ft. of 20% superphosphate yearly. It can do no harm. Beyond that, we add no fertilizers till the crop is in active growth.

Good drainage is essential—cracks in the bottom of benches that are open even when the boards are wet. On ground beds, where the sub-soil is heavy, one or two lines of 4 inch clay tile should be dug under each bed.

One or two cultivatings as the crop is starting into growth

will help on soil aeration. It pays.

About sterilizing: we steam fresh field soils before using them. In general, where soil is used for Mums-Snaps-Stocks, etc., we steam once a year. We've seen Mums grown continuously for two years without steaming the soil. Of course, if soil-borne insects show up, they must be cooked. Likewise, if a lot of verticillium or stem rot appears on Mums, we would certainly steam before replanting to Mums. In other words, on all crops, we steam before planting if steaming will control a disease we have reason to expect trouble with.





Steaming — to 180° — does a lot of good things to your soil. It cleans up disease organisms, it kills soil-borne weed seeds, in sects. Besides this, it tends to improve the physical condition.

We use the Thomas method (surface steaming) well described in a Cornell University Bulletin on the subject. Write the Dept. of Floriculture, Cornell University, Ithaca, New York. Soil must be heated to 180° for 30 minutes; on ground beds it should be heated to a depth of 8 inches to do a job. Some soils give "after sterilizing" troubles if planted immediately after steaming. Symptoms: retarded, slowed, yellowish growth, poor roots. Cure: a very heavy, thoro leaching (or two). Turning the soil with forks helps. Some schools recommend 4-5 lbs. per 100 sq. ft. of gypsum before planting. It could do no harm, and may help the soil recover from the "steaming miseries." Usually with a week or 10 days of leaching and waiting, you are safe. Some soils are OK the same day they are steamed. Actually, recent experience leads us to believe that it is less dangerous to bench cuttings immediately after steaming than to wait a week or two. Apparently, waiting 10 days allows time for the toxins to build up.

Chemicals will kill soil insects, but are questionable in control of diseases.

A word about excess salts: Every so often a grower complains of a gradual hardening and yellowing of his Mums—"just won't grow" is the usual conclusion. A Solu-Bridge test in 20 minutes shows that there is a serious excess of all salts in his soil. How did it get that way? Well, a very hard water can contribute large amounts of sulfates, carbonates, calcium. A too-heavy fertilizing program will cause build-up of nitrates, potash, etc. Some soils are naturally "saline"—or loaded with salts. Some such soils can be cured by heavy and repeated leaching: others must be abandoned.

Bench a Good Cutting

Certainly good Mums can't be grown unless the cutting used is grade A in every respect. They often aren't. Here are some points we find important:

- 1. The cutting must be well rooted (roots an inch or so), but it must not be left in the sand too long. A week too long will harden and check it, and will surely give a slow starting plant.
- 2. The cutting should be fat and succulent, not thin, hard and wiry. The first several batches from a bed of stock make the best ones.
- 3. Cuttings must be free of disease and insects. Several important diseases are not apparent on the cutting. Good propagating specialists carry out programs of culturing and isolating their stocks against such diseases.

The great majority of growers today depend on such specialists for their cuttings. We recommend it.

About Insects and Diseases

As we see it, it's more a question of setting up good routine control programs that will eliminate the common insect-disease troubles. It has been our experience that application every two weeks in summer, every month in winter, of a spray combining

Parathion and wettable sulfur with a spreader will eliminate most of the common Mum insect and disease problems.

We have had to use Parathion aerosol bombs to combat thrip on open flowers several times this summer. A Parathionwater spray can be used on open flowers, but Aerosol seems faster, more effective, less apt to injure petals.

Here are dilutions for the spray:

Per 10 Gallons of Water

21/2 ounces Parathion, 15% wettable powder.

2 ounces fermate.

3 ounces wettable sulfur powder

plus spreader.

The *Parathion* is the insecticide, and the most effective and versatile one we've ever used. It will give excellent control of the following pests if used regularly: red spider, aphis (green fly), midge, thrip, mealy bugs, tarnished plant bug, leaf tier, cut worm and leaf miner. It will also give excellent control of the leaf (foliar) nematode, since it penetrates the leaf tissue. It has a residual effect, making it effective for several days or more after spraying.

The fermate is an excellent general fungicide. Mainly for

Mums, it is aimed at leaf spot (septoria).

Sulfur is particularly effective against mildew.

This can be used without injury to Mums at any period *except*—crops showing color or with open flowers, better use Dithiono in aerosol bombs in such cases.

Jobs the above spray won't do:

1. Stunt: a virus that results in dwarfing to about half normal stem length and flower size, and yellowing of flowers on bronze and pink varieties. Foliage is slightly lighter, duller green. Stunted plants flower noticeably earlier than plants not affected. Control involves an extremely tedious selection and isolation process which is being carried out most carefully by the specialist-propagators. Once a plant is infected, there is no control. Typical stunt affects a relatively small percentage of a variety scattered at random thruout the bench. There is no drying or browning of foliage.

2. Stem rot: rotting off of plants at the soil surface—quite similar to the stem rot of Stocks. It appears only during the hot part of summer. Steaming of soil helps. Shallow planting of cuttings and keeping bench a little on the dry side till plants are established both help. Even during summer, a little "heat and air" at night will help. Benching a few extras

permits replacement of casualties

3. Petal spotting. Heat and air even during summer, especially at night when humidity is high, will help a lot. Flowers must be kept dry as they open. Parzate spray applied to the flowers weekly from the time color shows helps—be sure flowers dry off from spraying before nightfall. Worst on standards and especially Mefo and Betsy Ross. When shading during hot weather, drop sateen from 7 P.M. till 9 A.M. to avoid shading during afternoon heat. For more details, see Grower Talks, Sept. '50, page 20.

4. Verticillium (Seidewitz Disease). Causes browning, drying up of leaves. Main control: culturing of cuttings, which is done by specialist propagators, and steaming soil. Also, when this or other foliage diseases threaten, avoid wet-

ting foliage.

Ed. Seidewitz, pink Mum, Yellow and White Shasta Pomps are among the more susceptible varieties.

5. Dodder. There's nothing quite so bad once it gets started! It is a pale green parasite-vine that grows all over and between Mum foliage and stems. It fastens itself securely to the plant and sucks the life from it.

It is far cheaper to simply pull out and burn any infected

plants. Do it promptly; it spreads very fast.

A word on aerosol bombs. They will get most insects, and they're labor savers. For the smaller miscellaneous grower,

tho, there is a case for spraying, using the Parathion mixture described on page 25. Reasons:

- 1. At least in our experience, the temperature manipulation needed for good bombing encourages mildew. It's the temperature drop that's bad.
- 2. When you bomb, you bomb everything—including the Kalanchoe, the ferns and the proprietor's quarters, too, where they're connected to the greenhouses.
- 3. Bombs are not cheap. Much of what they save in labor, they lose you in cost of bombs, nozzles, protective clothes, etc.
 - 4. Spraying, if done regularly, is absolutely effective.
- 5. (And most important). We would probably carry on a regular spray program with sulfur, fermate, etc. for diseases, so why not add Parathion powder and do the whole job at once? We do.

Miscellany

Let's include here the details of caring for the crop:

When to Bench? A good general rule is to bench cuttings three weeks prior to the date given in the catalog for pinching. Dates for benching of shaded and lighted crops are included in the schedules. Pinch once, on the date given in the catalog. If plants haven't made several inches of new succulent growth, wait till they have. Always pinch into soft growth.

Watering Mums. Once a Mum crop has really started to grow, it would be hard to overwater it, especially on raised benches. Dig down below the surface; take a handful of soil, wad it up. If, when you drop the ball, it breaks apart, the soil is ready for water.

Mums like and respond to a "wetting down" of the foliage on hot summer afternoons. Lay off, tho, if any leaf diseases appear.

Premature Budding. Occasionally a variety or two will go to bud shortly after benching, on worthlessly short stems. It is most likely to happen on cuttings received early (February-March) and on the earlier flowering varieties. To prevent it:

- 1. Keep plants cool as possible, not over a 50° house.
- 2. Apply lights 2½ hours nightly thru September, 3 hours thru October, 4 hours thru November, 5 hours thru December and January, 4 hours thru February, 3 hours thru March, and 2 hours thru April—starting the day you receive the cuttings.
- 3. Keep growth soft as possible—ample water, adequate

Worst varieties for early budding: Blazing Gold, Legal Tender, Masterpiece, Silver Sheen, Constellation, Seneca and the hardy varieties as a class.

The Feeding Program. Starting within several days of benching, we give them a light application of a balanced liquid fertilizer every several weeks in summer and fall, less often in dark weather. Sandy soils require more feeding. Occasional soil tests are of real help in use of fertilizers. We like to keep nitrates, potash, and phosphates all in the medium

About pH: slightly acid (pH 6.8) to neutral is about right for Mums in our experience. In applying sulfur sprays to the foliage, you will eventually get enough on the soil to start driving the pH down. Tests will show this, and it can be

quickly corrected with lime.

Mulching Mums. Mums will respond very nicely to a half inch or so mulch of peat, especially during the warm months. It saves watering, seems to keep the surface soil from getting too hard. When the crop is out, you can plow this peat right into the soil where it will help the next crop, too.

"Taking" (or leaving!) the Bud—on Big Mums. In late summer you will find one of two types of growing tips on

1. CROWN. A flowering bud surrounded by non-flowering vegetative shoots.

2. TERMINAL. A flowering bud surrounded by flowering buds.

Early Mums will usually throw a crown bud in August. This is usually removed and one of the vegetative side shoots "selected" or left to grow on. All other shoots are removed. Some plants may produce another crown which may again be discarded in favor of a non-flowering shoot. Sooner or later, all plants produce a terminal, the center bud of which is left —to produce the flower.

On early varieties it's safest to remove all crowns up to August 20. Early crowns are O.K. to leave on some shaded Mums. On mid-season sorts, terminals are safer. Final bud should have been selected by September 1-10; on late ones a month later. Your experience is the best guide. Keep notes.

On single stemmed or unpinched crops of standard (big) Mums, always leave the center one of the first cluster of buds to appear. If the side buds surrounding this bud are not removed promptly, they will rapidly grow beyond the center bud. You will then have to leave one of the stronger side buds and remove the center one-and you will have a "dog leg" stem. Unpinched Mum crops must be checked over twice a week without fail to avoid this loss.

Cutting the flowers. One big point: start as the bench is just a bit on the too green side, and cut regularly every day so that the whole bench will be off before any part of it is old. Old or pickled flowers will be older yet when they reach the market-worth little or nothing.

Spacing—crops that are to be pinched (both Mums and Pomps) are normally spaced 7 x 8 or near to that. On this spacing, Pomps are usually pruned to leave the three strongest stems, big Mums the best two (or three depending on your market).

Supports-Why Three When One Does It? Years ago, the style was to grow Mums or Pomps 4-6 ft. tall or more and provide 2, 3 or even 4 layers of wire and cross strings. Mums were strung individually to an over-head wire—or staked.

We find it perfectly practical, and a great economy in time and material, to support both Mums and Pomps with a single layer of wire-string. This assumes proper scheduling of the crop so that it will not exceed 3-31/2 ft. in height. It also

One layer of wire-strings should handle Mums or Pomps—if moved up regularly. We handle this by tying the cross-piece, then driving a 2-inch nail just below it to prevent slipping down.





requires that this one layer of wire-string be capable of being raised weekly as the crop grows. If the plant is anchored at the ground, and at it's top, what can it do but stand up straight?

The end supports on our beds are of inch pipe. The intermediate supports on down the bench are spaced every 17 ft.; uprights are 1 x 2 and cross members are 1 x 1. Wires are stapled down to the 1 x 1. The 1 x 1 is fastened to the upright 1 x 2 by tying it with binder twine. To insure against it's slipping down, we drive a 2" nail below the 1 x 1 and only part way in so it can be raised weekly. See photo on opposite page.

In our early trials with this one layer support idea, we had one fine bench of Illini Snowdrift that tipped over on its side! Since then we have strengthened the supports, put them closer—and had no further trouble. By the way, we got the Snowdrift back up on its feet without any serious injury.

Best Temperatures: During firing season, normal flowering fall Mums have always been considered a 50 degree (nights) crop—58 cloudy day, 65 sunny day. For no-shade, no-light crops that flower up to December this 50 degrees will do, since bud setting takes place during the warmer days of August-early September. However, even normal flowering date crops that flower during December-early January had better be carried at least 55 until buds are in sight; otherwise some blindness may occur. Many a bed of Garza has turned out 1/4 blind—too cold.

Growers on tight 3-crops-a-year-schedule carry 60 degrees minimum thruout the year to insure bud set, and to be sure buds will develop and open timely so as not to delay the next crop. See page 28 for details.

THE CLOTH HOUSE PROGRAM

It has been our experience that, with careful culture, Pomps flowered outdoors under cloth during August-September are clearly superior to those grown under glass at that time. We're talking about Midwest and Eastern areas now.

Of course, our late summer markets are always generously supplied with what are tagged "outdoor" Pomps—hard stems, dried up foliage, and poor, dirty flowers. However, the much cooler temperatures, especially at night, and the ample fresh outdoor air, if combined with *careful growing*, are substantial advantages to outdoor growing over hot greenhouses. Certainly costs are lower. Fading of colors is much less of a problem outdoors.

Cloth house Pomps can be flowered all the way from early July till well into October. The early July crop is produced by benching a 2½ inch banded plant outdoors May 1, protecting it from early frost with sateen cover and a steam pipe if necessary. Cuttings should be banded about 30 days before benching date. Single stemmed culture is followed. Pomps may be flowered to mid-October by the same combination of sateen and heat. The regular "off-season" timing schedules (page 30) are used to plan cloth house crops.

Since few quality cut flower varieties normally flower before frost date, most growers of cloth house crops use later varieties shaded with black sateen.

Large flowering standards are occasionally grown under cloth, but due to petal rot are a definite gamble. Hard varieties are best—Good News, Detroit News, Blazing Gold. By careful selection of varieties, excellent pot Mums may be grown under cloth.

Cloth house Pomps are grown over most of the United States—heaviest in the Midwest, East and California. In almost any location, Aster cloth (or Seran) protection is a "must" for quality.

The Disease Problem

Because rains keep foliage wet, and tend also to spread disease spores (through splashing), such problems as Verti-

cillium, Septoria, and Mildew are more serious outdoors than under glass. Insects tend to be more troublesome, too, because there is no glass barrier to keep them from blowing into the beds. It all adds up to an even more thorough preventive program.

First, disease-free cuttings are a must—especially must they be cultured against Verticillium. Second, if at all possible, soil should be steamed. As a second choice, don't grow Pomps too many seasons on the same land. Third, if foliage diseases are giving trouble, carefully avoid wetting foliage while you water—rains will wet it enough!

And lastly: A regular weekly spray program to include Parathion, Fermate, Sulfur, and a spreader. See page 25. Kept up weekly, this will go a long way to keep cloth house Pomps clean.

Quite a few cloth house growers are turning to plastics such as Seran in place of Aster cloth. The 20 threads per inch grade of Seran clear, not green, will grow good Pomps. It is not as effective an insect barrier as the 20 thread per inch cotton—lacks the fuzziness. But in a Mum house where regular spraying is kept up, the insect problem shouldn't be serious. Seran will last 3 to 5 years or more, so is an economy in the long run.

Heated Cloth Houses

Because we have "cool summers" every several years, and because low July-August temperatures delay and interfere with bud setting, several growers are running a few heat lines through their cloth houses. Every several seasons we hear of a lot of cloth house Pomps that set bud, then start in vegetative growth again, and in other ways produce defective sprays. Certainly the grower equipped to keep at least 55 degrees and preferably 60 degrees in his cloth house is going to get a more uniform product over the years.

When such heat is used under cloth, the black sateen is rolled down to keep the heat down on the plants.

Schedules and Varieties for Cloth House

The regular Off-Season Mum schedules that start on page 30 may be used for timing cloth house crops. The schedules for late July, August, and September flowerings start on page 32.

Not all varieties stand cloth house conditions. The following are recommended for late July, August and up to the September 28 flowering:

White: Shasta 10W
Shooting Star 9W
Belray 12W
White Popcorn 9W
Keepsake 9W
Pinocchio 9W
*Encore 10W
Snowdrift 10W

Yellow: Mary L. Hall 10W Yellow Shasta 10W Gold Coast 9W Golden Herald 9W Sunup 9W Schneeburg's Daisy 9W

Bronze: Beauregard 10W
Chevron 10
Paragon 10W
Buckskin 10W
Butterscotch 10W
Thelma 11W

Pink: Reward 9W Jessie 9W Pink Dot 9W Pandora 10W Linda Lou 10W Memorial 10W

For flowering Sept. 28 or later under cloth all the 10 week (10W) varieties above may be used—plus the following:

White: Belray 11W Highbrow 11W Crystal Beauty 11W Sculpture 11W

Yellow: Golden Chord 11W Lollipop 11W Klondike 11W

Bronze: Thelma 11W
Rusticon 11W
Bronze Minuet 11W

Pink: Grand Slam 11W Pinky 11W Minuet 11W

*For single stemmed culture, bench cuttings 1 to 2 weeks before shading. For pinched crop, shade 1-2 weeks after pinch (Encore, only).

OFF-SEASON MUMS

Years ago, Mums were flowered only during late fall—"normal season." In the thirties black cloth shading came into commercial practice—and good Mums came onto the markets during September and early October. The past five years have seen large scale use of lighting and now Mums are becoming an accepted spring and early summer flower—and even winter too.

Why have growers been so anxious to extend the Mum season? Mums have been in ample supply—sometimes surplus during the fall, but have been in demand and at good prices during spring and summer and even September. Furthermore, retailers like spring and summer Mums well because they will keep (often two weeks)—and because of the wide variety in color and form they provide. A Gladiolus is a "Glad"—different colors, yes. But consider the endless variety in Mums—from tiny white Pinocchio to giant 6-7 inch Mefo's—and the delicate spiders such as Queen's Lace that are enjoying so much popularity!

Off-season flowering is no more difficult than many other cut flower crops. The rules are well defined. To succeed, the grower must, however, be prepared to provide the temperatures, accurate day length control (shade and lights), and will do best by staying close to prescribed varieties at least until he has had some experience. Note, too, that all these schedules are based on rapid, unchecked growth—good porous soil must be provided, plants must be well watered, fed regularly, kept free of insects and diseases. And remember, no Mum crop can succeed unless good, soft, clean, well-rooted cuttings are used.

Off-Season Temperatures

Temperatures for winter and spring flowering must be considered by growth periods:

- 1. From benching till you start short days (lights off or start shading date): A 60° minimum is best; 55° will do, but at 50° nights, growth will be slowed and stems too short on these schedules.
- 2. Bud formation period—starting with "lights off" or the "start shading" date and until buds are definitely formed (Pomps should show color). Temperature thru this period must not be below 60°. At 55° nights some varieties will be more or less blind; also at lower temperatures you will get fewer florets per spray. We recommend holding night temperature at 63° instead of 60° to allow for cold ends of houses.
- 3. After buds form, and until flowers are cut: crops that are flowered in the winter period (Mid-December to March) are apt to be soft and of poor quality unless dropped gradually to 55 or 50 degrees as soon as color shows. This depends some on amount of sun—the more sun, the higher the temperature which may be carried. Normally late varieties like Cameo and Vibrant can be finished at higher temperatures than earlier ones like Gold Coast.

"50 degrees" here means 50 degrees at night, 58 on cloudy days, 65 on sunny days. A 60 degree house should be 65 on cloudy days, 72 on sunny days (or 75°).

4. The miscellaneous grower—planning only a bed or two of off-season Pomps in his 50° house—can't provide these carefully adjusted temperatures. We have seen good Pomps finished all the way from Easter till summer in 50° houses. If cuttings are benched a week or two early it will offset the short stem problem. During actual bud formation, the 60° temperature is provided at night by covering the bed with black sateen cloth and turning pipes on below it. Rather questionable for crops flowered between January and April. Worth noting here: growers not experienced with off-season Mums will find the spring and early summer an excellent time to try first. For

many reasons, they are easier to flower thru May, June and July than they are in January-February-March. And June Pomps have so far brought fair returns.

Which Varieties?

As any grower knows, the more of any one variety that is produced in a given week, the less it will bring per bunch. Splitting your planting up among more varieties is more trouble, and means growing some that may not seem perfect to you—but it will pay in \$\$\$ returns.

The problem then, is to find enough suitable varieties for each flowering period. With this problem in mind, we have tried to broaden the number of varieties recommended in each period and for each color. We urge growers to at least try out a wider number of varieties—you will always find some better than others, and very likely your choice of best in each color may not agree with our experience.

Correct Spacing of Plants

First, for pinched crops: both Standards and Pomps, 7×8 or 8×8 inches is about it, with perhaps some allowance for varieties as you get to know them. For single stemmed (no pinch) growing, we find 5×6 inches close enough for both Pomps and Standards. Some growers follow the idea of closer spacing during summer (4×7) , or even 4×6 for Pomps, for crops to flower from June 1 to October 1), and farther apart during winter flowering (6×6) for Pomps). As we see it, there's just as good a case for a uniform 5×6 inch spacing thru the year.

Percentages of Colors

Here are the percentages we use for the Chicago market:

Percentage of Pomps and Standards—by Flowering Periods

	JanApril	May-Sept.	OctDec.
% Pomps	75	90	60
% Standards	25	10	40

Note: Standards may be flowered thruout the summer and fall period. However, in our experience, the occasional hot spells that occur in our latitude are apt to burn petals and fade colors of bronze and pink varieties badly.

Color Percentages of Pomps—by Flowering Periods

	Jan March	April- May	June	July- Aug.	Sept Oct.	Nov Dec.
% White	50	55	60	40	35	40
% Yellow	30	30	30	40	35	20
% Pink	·15	15	10	10	5	10
% Bronze	5			10	25	30

Color Percentages of Standards (Mums) by periods

	Jan March	April- May	June	July- Aug.	Sept Oct.	Nov Dec.
% White	60	55	60	45	25 ·	45
% Yellow	30	30	30	45	40	20
% Pink	10	15	10		. —	5
% Bronze				10	35	. 30

About Single Stemmed Mums

Each of the schedules gives dates for both pinched and unpinched culture. Why single stemmed Mums?

After several season's experience with unpinched crops, we believe that, while there is added cost of cuttings because of the closer spacing, there are advantages that more than offset this cost—on *some* crops. First, you save 3-5 weeks' time by eliminating the pinch. Production seems generally some better; sprays seem to form up better, especially in winter and spring.





Mr. C. R. Vance of Princeton, III. Seen with a house of Indianapolis Mums (as of Feb. 26.) They were grown in a Carnation house tem-perature—but few va-rieties will set buds re-liably at 50 degrees.

A good example: cloth house Pomps if pinched can't be flowered before Labor Day. A single stemmed crop planted May 7 flowers August 7—and on our market last year they brought 30c per bunch more than in September. Where you are figuring a tight rotation in the greenhouse this saving of 3-5 weeks might mean getting an extra crop in. Single stemmed culture is a must on 3-crops-a-year Mum growing.

Where standards (big Mums) are grown single stemmed, in practically all cases, the first center bud that appears should be left on and allowed to develop. Removal of side buds must be done before they over-grow the center bud!

Try it!

Lighting Details

The purpose of lights on winter crops is to delay bud formation till sufficient stem has developed. If you are getting premature bud formation at the corners (farthest away from the bulbs), your light intensity is too low. Best way is to check with a light meter—can be borrowed from your Public Service Company or electrical contractor. 10 foot candles minimum is ample, we shoot for at least 7 all over; one large grower works on an absolute minimum of 5.

For single 4 ft. beds, one string of 60 watt bulbs with reflectors spaced 4 ft. apart and 3 ft. above plant tops is adequate. Where two beds are to be lighted together, one string of 100 watt bulbs with reflectors does it. A string of 150 watt bulbs will handle three 3½ ft. beds for us.

To reduce sizes of electric mains, the area to be lighted can be split in half. The first half is lighted the required number of hours before midnight; the second half gets the same number of hours light after midnight. Also 230 volt lines will help reduce main sizes on some installations. Consult your electrician.

Some growers fasten 150 watt or larger "self reflector" bulbs to the roof of the houses, lighting the entire house.

Round the Clock Mums

Three crops a year on one bench are being produced by quite a few Mum growers around the United States and Canada. That's a story in itself! Write us for our three-cropsa-year program.

About Spray Formation

Some varieties during certain winter periods tend toward a clubby, tight spray. To some extent this is a question of varieties; avoid those that make poor sprays. In general, the normally late varieties make better sprays for January-February-March flowering than will the earlier kinds.

Also, many growers reduce the period of light to 1 hour during the last one-third of the lighting period to improve spray form. For example, on the crop to flower January 14, lights would be turned on only 1 hour nightly from September 23 to October 8.

Unchecked, Rapid Growth

These schedules are all based on a rapid, unchecked growth. You should realize 8-10 inches of new growth on a cutting within 30 days of benching. (We have gotten as much as 20 inches!) If you aren't getting it, here are things to look for:

- 1. Poorly rooted, hard cuttings; too long in the sand.
- 2. Tight soil; poorly drained and aerated. Add peat or manure.
- 3. Nutrient deficiency—lack of nitrates, potash or phosphate.
- 4. Too cold—they grow much faster at 60° than at 45°!
- 5. Too dry—soil must be kept uniformly moist.
- 6. Bugs.

DATES TO START AND STOP LIGHTS AND SHADE

Response Group	Start Light in Fall	Stop Light in Spring	Start Shade in Spring	
8, 9, 10, 11 Week	July 15	May 15	March 15	Sept. 15
12, 13, 14 Week	Aug. 5	May 10	Feb. 15	Oct. 5

HOURS OF LIGHT PER NIGHT (Latitude 35-45°)

- 1 hour per night during July and May.
- 2 hours per night during August and April.
- 3 hours per night during September, October, and March.
- 4 hours per night during November and February. 5 hours per night during December and January.

HOURS OF LIGHT PER NIGHT (Latitude 25-35°)

- 1 hour per night during June and July.
- 2 hours per night during April, May, and August.
- 3 hours per night during February, March, September, and October.
- 4 hours per night during November, December, and January.

LATITUDE TABLE

- 40-45° includes: New England, New York, Pennsylvania, Northern Ohio, Northern Indiana, Northern Illinois, Iowa,
- Minnesota, Wisconsin, Michigan, Washington, and Oregon.
- 35-40° includes: Southern New Jersey, Delaware, Maryland, Virginia, West Virginia, North Carolina, Kentucky, Tennessee, Southern Ohio, Southern Indiana, Southern Illinois, Missouri, Kansas, Colorado, Northern Arkansas,
 - Northern Oklahoma, Southern Nevada, Southern Utah, and Central California.
- 30-35° includes: Southern California, New Mexico, Arizona, Texas (North of Austin), Southern Oklahoma, Southern
- Arkansas, Louisiana, Mississippi, Alabama, Georgia, South Carolina, and Northern Florida. 25-30° includes: Central and Southern Florida, and Southern Texas.



YEAR 'ROUND FLOWERING SCHEDULE

TO FLOWER APRIL 16

Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
Nov. 13	Dec. 11	Nov. 13-Jan. 29	Feb. 15	List B, page 38	List J , page 39
Nov. 20	Dec. 18	Nov. 20-Jan. 29	Feb. 15	List B , page 38	List J , page 39
Nov. 27	Dec. 25	Nov. 27-Feb. 5	Mar. 15 if no buds	List A , page 38	List K , page 39
Dec. 25	Jan. 15	Dec. 25-Feb. 5	Mar. 15 if no buds	List F, page 39	List K, page 39
		TO FLOWER	APRIL 23		
Nov. 20	Dec. 25	Nov. 20-Feb. 5	Feb. 15	List B, page 38	List J , page 39
Nov. 27	Jan. 1	Nov. 27-Feb. 5	Feb. 15	List B , page 38	List J , page 39
Dec. 11	Jan. 8	Dec. 11-Feb. 12	Mar. 15	List A , page 38	List K , page 39
Jan. 1	Jan. 22	Jan. 1-Feb. 12	Mar. 15	List F , page 39	List K , page 39
		TO FLOWER	APRIL 30		
Nov. 27	Jan. 1	Nov. 27-Feb. 12	Feb. 15	List B, page 38	List J , page 39
Dec. 4	Jan. 8	Dec. 4-Feb. 12	Feb. 15	List B, page 38	List J , page 39
Dec. 18	Jan. 15	Dec. 18-Feb. 19	Mar. 15	List A, page 38	List K , page 39
Jan. 8	Jan. 29	Jan. 8-Feb. 19	Mar. 15	List F , page 39	List K, page 39
		TO FLOWER	MAY 7		
Dec. 11	Jan. 15	Dec. 11-Feb. 19	Feb. 19	List B, page 38	List J , page 39
Dec. 18	Jan. 22	Dec. 18-Feb. 26	Mar. 15	List A, page 38	List J , page 39
Jan. 1	Jan. 29	Jan. 1-Feb. 26	Mar. 15	List A , page 38	List K , page 39
Jan. 15	Feb. 5	Jan. 15-Feb. 26	Mar. 15	List F, page 39	List K , page 39
		TO FLOWER	MAY 14		
Dec. 18	Jan. 22	Dec. 18-Feb. 26	Feb. 26	List B, page 38	List J, page 39
Dec. 25	Jan. 29	Dec. 25-Mar. 5	Mar. 15	List A, page 38	List J , page 39
Jan. 8	Feb. 5	Jan. 8-Mar. 5	Mar. 15	List A, page 38	List K , page 39
Jan. 22	Feb. 12	Jan. 22-Mar. 5	Mar. 15	List F, page 39	List K , page 39
		TO FLOWER	MAY 21		
Jan. 1	Feb. 5	Jan. 1-Mar. 12	Mar. 15	List A, page 38	List H, page 39
Jan. 8	Feb. 12	Jan. 8-Mar. 12 °	Mar. 15	List A, page 38	List H , page 39
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Jan. 22	Feb. 19	Jan. 22-Mar. 12	Mar. 15	List A, page 38	List K , page 39
	Nov. 13 Nov. 20 Nov. 27 Dec. 25 Nov. 27 Dec. 11 Jan. 1 Nov. 27 Dec. 4 Dec. 18 Jan. 8 Dec. 11 Dec. 18 Jan. 1 Jan. 15	Cuttings Pinch* Nov. 13 Dec. 11 Nov. 20 Dec. 25 Dec. 25 Jan. 15 Dec. 25 Jan. 1 Nov. 27 Jan. 1 Dec. 11 Jan. 8 Jan. 1 Jan. 22 Nov. 27 Jan. 1 Dec. 4 Jan. 8 Dec. 18 Jan. 29 Dec. 11 Jan. 15 Dec. 18 Jan. 22 Jan. 15 Feb. 5 Dec. 18 Jan. 29 Jan. 15 Feb. 5 Jan. 22 Jan. 29 Jan. 8 Feb. 5 Jan. 22 Feb. 5	Cuttings Pinch* Lighting Period Nov. 13 Dec. 11 Nov. 13-Jan. 29 Nov. 20 Dec. 18 Nov. 20-Jan. 29 Nov. 27 Dec. 25 Nov. 27-Feb. 5 Dec. 25 Jan. 15 Dec. 25-Feb. 5 Nov. 20 Dec. 25 Nov. 20-Feb. 5 Nov. 27 Jan. 1 Nov. 27-Feb. 5 Dec. 11 Jan. 8 Dec. 11-Feb. 12 Jan. 1 Jan. 22 Jan. 1-Feb. 12 Dec. 4 Jan. 8 Dec. 4-Feb. 12 Dec. 18 Jan. 15 Dec. 18-Feb. 19 Jan. 8 Jan. 29 Jan. 8-Feb. 19 Dec. 11 Jan. 15 Dec. 11-Feb. 19 Dec. 18 Jan. 22 Dec. 18-Feb. 26 Jan. 1 Jan. 29 Jan. 1-Feb. 26 Jan. 15 Feb. 5 Jan. 15-Feb. 26 Dec. 18 Jan. 29 Jan. 1-Feb. 26 Jan. 15 Feb. 5 Jan. 15-Feb. 26 Jan. 15 Feb. 5 Jan. 15-Feb. 26 Jan. 16 Jan. 15-Feb. 26 Jan. 17 Ja	Nov. 13 Dec. 11 Nov. 13-Jan. 29 Feb. 15	Nov. 13 Dec. 11 Nov. 13-Jan. 29 Feb. 15 List B, page 38

These tables specify lighting during May, June and July in some cases. During seasons of favorable summer day length, some of this lighting is not really necessary. However, since most off-season growers are equipped to light anyway, we advise following the tables. Doing so will prevent premature bud set during cloudy weather.

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



TO FLOWER MAY 28

Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	Jan. 8	Feb. 12	Jan. 8-Mar. 19	Mar. 19	List A , page 38	List H, page 39
35-40°	Jan. 15	Feb. 19	Jan. 15-Mar. 19	Mar. 19	List A , page 38	List H, page 39
30-35°	Jan. 29	Feb. 26	Jan. 29-Mar. 19	Mar. 19	List A , page 38	List K , page 39
25-30°	Feb. 5	Feb. 26	Feb. 5-Mar. 19	Mar. 19	List F , page 39	List K , page 39

TO FLOWER JUNE 4

40-45°	Jan. 15	Feb. 19	Jan. 15-Mar. 26	Mar. 26	List A , page 38	List H, page 39
35-40°	Jan. 29	Mar. 5	Jan. 29-Mar. 26	Mar. 26	List A , page 38	List H, page 39
30-35°	Feb. 5	Mar. 5	Feb. 5-Mar. 26	Mar. 26	List A , page 38	List K , page 39
25-30°	Feb. 12	Mar. 5	Feb. 12-Mar. 26	Mar. 26	List F , page 39	List K, page 39

TO FLOWER JUNE 11

40-45°	Jan. 29	Mar. 5	Jan. 29-Apr. 2	Apr. 2	List A , page 38	List H, page 39
35-40°	Feb. 5	Mar. 12	Feb. 5-Apr. 2	Apr. 2	List A, page 38	List H, page [§] 39
30-35°	Feb. 12	Mar. 12	Feb. 12-Apr. 2	Apr. 2	List A, page 38	List K, page 39
25-30°	Feb. 19	Mar. 12	Feb. 19-Apr. 2	Apr. 2	List F , page 39	List K , page 39

TO FLOWER JUNE 18

40-45°	Feb. 12	Mar. 19	Feb. 12-Apr. 9	Apr. 9	List A , page 38	List H , page 39
35-40°	Feb. 12	Mar. 19	Feb. 12-Apr. 9	Apr. 9	List A , page 38	List H , page 39
30-35°	Feb. 19	Mar. 19	Feb. 19-Apr. 9	Apr. 9	List A , page 38	List K , page 39
25-30°	Feb. 26	Mar. 19	Feb. 26-Apr. 9	Apr. 9	List F , page 39	List K, page 39

TO FLOWER JUNE 25

40-45°	Feb. 26	Mar. 26	Feb. 26-Apr.16	Apr. 16	List A , page 38	List H , page 39
35-40°	Feb. 26	Mar. 26	Feb. 26-Apr.16	Apr. 16	List A , page 38	List H, page 39
30-35°	Feb. 26	Mar. 26	Feb. 26-Apr.16	Apr. 16	List A , page 38	List K , page 39
25-30°	Mar. 12	Mar. 26	Mar. 12-Apr. 16	Apr. 16	List F , page 39	List K , page 39

TO FLOWER JULY 2

40-45°	Mar. 5 -	Apr. 2	Mar. 5-Apr. 23	Apr. 23	List A, page 38	List H, page 39
35-40°	Mar. 5	Apr. 2	Mar. 5-Apr. 23	Apr. 23	List A , page 38	List H , page 39
30-35°	Mar. 5	Apr. 2	Mar. 5-Apr. 23	Apr. 23	List A , page 38	List K, page 39
25-30°	Mar. 19	Apr. 2	Mar. 19-Apr. 23	Apr. 23	List F, page 39	List K, page 39

TO FLOWER JULY 9

40-45°	Mar. 12	Apr. 9	Mar. 12-Apr. 30	Apr. 30	List A , page 38	List H , page 39
35-40°	Mar. 12	Apr. 9	Mar. 12-Apr. 30	Apr. 30	List A , page 38	List H , page 39
30-35°	Mar. 12	Apr. 9	Mar. 12-Apr. 30	Apr. 30	List A , page 38	List K, page 39
25-30°	Mar. 26	Apr. 9	Mar. 26-Apr. 30	Apr. 30	List F, page 39	List K, page 39
23-30	Mar. 26	Apr. 9	77tat: 20 7 pt. 00			

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



TO FLOWER JULY 16

Latitude	Plant		Sta	Start	USE THESE VARIETIES	
(See Page 29)	Cuttings	Pinch*	Lighting Period	Shade	Pompons	Standards
40-45°	Mar. 19	Apr. 16	Mar. 19-May 1	May 7	List A , page 38	List H, page 39
35-40°	Mar. 19	Apr. 16	Mar. 19-May 7	May 7	List A, page 38	List H , page 39
30-35°	Mar. 19	Apr. 16	Mar. 19-May 7	May 7	List A, page 38	List K , page 39
25-30°	Apr. 2	Apr. 16	Apr. 2-May 7	May 7	List F , page 39	List K, page 39

TO FLOWER JULY 23

40-45°	Mar. 26	Apr. 23	Mar. 26-May 1	May 14	List A, page 38	List H, page 39
35-40°	Mar. 26	Apr. 23	Mar. 26-May 14	May 14	List A , page 38	List H , page 39
30-35°	Mar. 26	, Apr. 23	Mar. 26-May 14	May 14	List A, page 38	List K, page 39
25-30°	Apr. 9	Apr. 23	Apr. 9-May 14	May 14	List F , page 39	List K , page 39

TO FLOWER JULY 30

40-45°	Apr. 2	Apr. 30	Apr. 2-May 1	May 21	List A, page 38	List H, page 39
35-40°	Apr. 2	Apr. 30	Apr. 2-May 15	May 21	List A , page 38	List H, page 39
30-35°	Apr. 2	Apr. 30	Apr. 2-May 21	May 21	List A , page 38	List K, page 39
25-30°	Apr. 16	Apr. 30	Apr. 16-May 21	May 21	List F, page 39	List K, page 39

TO FLOWER AUGUST 6

40-45°	Apr. 9	· May 7	Apr. 9-May 1	May 28	List A , page 38	List H, page 39
35-40°	Apr. 9	May 7	Apr. 9-May 15	May 28	List A , page 38	List H , page 39
30-35°	Apr. 9	May 7	Apr. 9-May 28	May 28	List A , page 38	List K, page 39
25-30°	Apr. 23	May 7	Apr. 23-May 28	May 28	List F, page 39	List K, page 39

TO FLOWER AUGUST 13

40-45°	Apr. 16	May 14	Apr. 16-May-1	June 4	List A , page 38	List H , page 39
35-40°	Apr. 16	May 14	Apr. 16-May 15	June 4	List A , page 38	List H , page 39
30-35°	Apr. 16	May 14	Apr. 16-June 4	June 4	List A , page 38	List K , page 39
25-30°	Apr. 30	May 14	Apr. 30-June 4	June 4	List F , page 39	List K, page 39

TO FLOWER AUGUST 20

40-45°	Apr. 23	May 21	Apr. 23-May 1	June 11	List A, page 38	List H , page 39
35-40°	Apr. 23	May 21	Apr. 23-May 15	June 11	List A , page 38	List H , page 39
30-35°	Apr. 23	May 21	Apr. 23-June 11	June 11	List A , page 38	List K , page 39
25-30°	May 7	May 21	May 7-June 11	June 11	List F, page 39	List K , page 39

TO FLOWER AUGUST 27

40-45°	Apr. 30	May 28	Apr. 30-May 1	June 18	List A , page 38	List H , page 39
35-40°	Apr. 30	May 28	Apr. 30-May 15	June 18	List A, page 38	List H , page 39
30-35°	Apr. 30	May 28	Apr. 30-June 18	June 18	List A , page 38	List K , page 39
25-30°	May 14 .	May 28	May 14-June 18	June 18	List F , page 39	List K, page 39

^{*}For single stem culture: plant cuttings on pinch date given above During lighting periods, start lights same day you plant.



TO FLOWER SEPTEMBER 3

Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	May 7	June 4	No Lights	June 25	List A , page 38	List H, page 39
35-40°	May 7	June 4	May 7-May 15	June 25	List A , page 38	List H , page 39
30-35°	May 14	June 4	May 14-June 25	June 25	List A , page 38	List K , page 39
25-30°	May 21	June 4	May 21-June 25	June 25	List F , page 39	List K, page 39

TO FLOWER SEPTEMBER 10

40-45°	May 14	June 11	No Lights	July 2	List A , page 38	List H, page 39
35-40°	May 14	June 11	May 14-May 15	July 2	List A , page 38	List H , page 39
30-35°	May 21	June 11	May 21-July 2	July 2	List A , page 38	List K , page 39
25-30°	May 28	June 11	May 28-July 2	July 2	List F , page 39	List K , page 39

TO FLOWER SEPTEMBER 17

40-45°	May 28	June 18	No Lights	July 2	List C , page 38	List H, page 39
35-40°	May 28	June 18	No Lights	July 9	List A , page 38	List H , page 39
30-35°	May 28	June 18	May 28-July 9	July 9	List A , page 38	List K , page 39
25-30°	June 4	June 18	June 4-July 9	July 9	List F , page 39	List K, page 39

TO FLOWER SEPTEMBER 24

40-45°	May 28	June 18	No Lights	July 9	List C , page 38	List H, page 39
35-40°	June 4	June 25	July 15-July 16	July 16	List A , page 38	List H , page 39
30-35°	June 4	June 25	June 4-July 16	July 16	List A , page 38	List K, page 39
25-30°	June 11	June 25	June 11-July 16	July 16	List F, page 39	List K, page 39

TO FLOWER OCTOBER 1

40-45°	June 4	June 25	No Lights	July 16	List C , page 38	List H, page 39
35-40°	June 11	July 2	July 15-July 16	July 16	List C , page 38	List H, page 39
30-35°	June 11	July 2	June 11-July 23	July 23	List A , page 38	List K, page 39
25-30°	June 18	July 2	June 18-July 23	July 23	List F , page 39	List K , page 39

TO FLOWER OCTOBER 8

40-45°	June 11	July 2	No Lights	July 23	List C , page 38	List H , page 39
35-40°	June 18	July 9	July 15-July 23	July 23	List C , page 38	List H , page 39
30-35°	June 11	July 2	June 11-July 30	July 30	List A , page 38	List K , page 39
25-30°	June 25	July 9	June 25-July 30	July 30	List F , page 39	List K, page 39

TO FLOWER OCTOBER 15

40-45°	June 11	July 2	No Lights	July 30	List C , page 38	List J , page 39
35-40°	June 18	July 9	July 15-July 30	July 30	List C , page 38	List H , page 39
30-35°	June 18	July 9	June 18-Aug. 6	Aug. 6	List A , page 38	List K , page 39
25-30°	July 2	July 16	July 2-Aug. 6	Aug. 6	List F, page 39	List K, page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



TO FLOWER OCTOBER 22

Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	June 18	July 9	Aug. 1-Aug. 6	Aug. 6	List C , page 38	List J , page 39
35-40°	June 25	July 16	July 15-Aug. 6	Aug. 6	List C , page 38	List J , page 39
30-35°	June 25	July 16	June 25-Aug. 13	Aug. 13	List A , page 38	List K , page 39
25-30°	July 9	July 23	July 9-Aug. 13	Aug. 13	List F , page 39	List K , page 39

TO FLOWER OCTOBER 29

40-45°	June 25	July 16 -	Aug. 1-Aug. 13	Aug. 13	List C , page 38	List J , page 39
35-40°	July 2	July 23	July 15-Aug. 13	Aug. 13	List C , page 38	List J , page 39
30-35°	July 2 ·	July 23	July 2-Aug. 20	Aug. 20	List A, page 38	List K , page 39
25-30°	July 16	July 30	July 16-Aug. 20 .	Aug. 20	List F , page 39	List K , page 39

TO FLOWER NOVEMBER 5

40-45°	June 25	July 16	Aug. 1-Aug. 20	Aug. 20	List C , page 38	List J , page 39
35-40°	July 2	July 23	July 15-Aug. 20	Aug. 20	List C , page 38	List J , page 39
30-35°	July 2	July 23	July 2-Aug. 27	Aug. 27	List A , page 38	List K , page 39
25-30°	July 23	Aug. б	July 23-Aug. 27	Aug. 27	List F , page 39	List K , page 39

TO FLOWER NOVEMBER 12

40-45°	July 2	July 23	Aug. 1-Aug. 27	Aug. 27	List C, page 38	List J, page 39
35-40°	July 9	July 30	July 15-Aug. 27	Aug. 27	List C , page 38	List J , page 39
30-35°	July 9	July 30	July 9-Sept. 3	Sept. 3	List A , page 38	List K , page 39
25-30°	July 30	Aug. 13	July 30-Sept. 3	Sept. 3	List F , page 39	List K , page 39

TO FLOWER NOVEMBER 19

40-45°	July 9	July 30	Aug. 6-Sept. 3	Sept. 3	List C , page 38	List J , page 39
35-40°	July 16	Aug. 6	July 16-Sept. 3	Sept. 3	List C , page 38	List J , page 39
30-35°	July 16	Aug. 6	July 16-Sept. 10	Sept. 10	List A , page 38	List K, page 39
25-30°	Aug. 6	Aug. 20	Aug. 6-Sept. 10	Sept. 10	List F , page 39	List K , page 39

TO FLOWER NOVEMBER 26

40-45°	July 9	July 30	Aug. 1-Sept. 10	Sept. 10	List C , page 38	List J, page 39
35-40°	July 16	Aug. 6	July 16-Sept. 10	Sept. 10	List C , page 38	List J , page 39
30-35°	July 23	Aug. 13	July 23-Sept. 17	No Shade	List A , page 38	List K , page 39
25-30°	Aug. 13	Aug. 27	Aug. 13-Sept. 17	No Shade	List F , page 39	List K , page 39

TO FLOWER DECEMBER 3

40-45°	July 16 July 16	Aug. 6 Aug. 6	Aug. 1-Aug. 27 Aug. 1-Sept. 17	Aug. 27 Sept. 17	List E, page 39	List J , page 39
35-40°	July 23 July 23	Aug. 13 Aug. 13	July 23-Aug. 27 July 23-Sept. 17	Aug. 27 Sept. 17	List E , page 39	List J , page 39
30-35°	July 23	Aug. 13	July 23-Sept. 24	No Shade	List A , page 38	List K , page 39
25-30°	Aug. 13	Aug. 27	Aug. 13-Sept. 24	No Shade	List F , page 39	List K , page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



TO FLOWER DECEMBER 10

			TO FLOWER DE	CEMBER 10		
Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	July 23 July 23	Aug. 13 Aug. 13	Aug. 1-Sept. 3 Aug. 1-Sept. 24	Sept. 3 Sept. 24	List E , page 39	List J , page 39
35-40°	July 30 July 30	Aug. 20 Aug. 20	July 30-Sept. 3 July 30-Sept. 24	Sept. 3 Sept. 24	List E , page 39	List J , page 39
30-35°	July 30	Aug. 20	July 30-Oct. 1	No Shade	List A, page 38	List K , page 39
25-30°	Aug. 20	Sept. 3	Aug. 20-Oct. 1	No Shade	List F , page 39	List K , page 39
			TO FLOWER DE	CEMBER 17		
40-45°	July 23 July 23	Aug. 13 Aug. 13	Aug. 1-Sept. 10 Aug. 1-Oct. 1	Sept. 10 Oct. 1	List E , page 39	List J , page 39
35-40°	July 30 July 30	Aug. 20 Aug. 20	July 30-Sept. 10 July 30-Oct. 1	Sept. 10 Oct. 1	List E , page 39	 List J , page 39
30-35°	Aug. 6 Aug. 6	Aug. 27 Aug. 27	Aug. 6-Sept. 24 Aug. 6-Oct. 1	Sept. 24 Oct. 1	List G , page 39	 List K, page 39
25-30°	Aug. 27	Sept. 10	Aug. 27-Oct. 8	No Shade	List F , page 39	List K , page 39
			TO FLOWER DE	CEMBER 24		
40-45°	July 30 July 30	Aug. 20 Aug. 20	Aug. 1-Sept. 17 Aug. 1-Oct. 8	Sept. 17 No Shade	List E , page 39	List J , page 39
35-40°	Aug. 6 Aug. 6	Aug. 27 Aug. 27	Aug. 6-Sept. 17 Aug. 6-Oct. 8	Sept. 17 No Shade	List E , page 39	 List J , page 39
30-35°	Aug. 13 Aug. 13	Sept. 3 Sept. 3	Aug. 13-Oct. 1 Aug. 13-Oct. 8	Oct. 1 No Shade	List G , page 39	 List K, page 39
25-30°	Sept. 3	Sept. 17	Sept. 3-Oct. 15	No Shade	List F , page 39	List K , page 39
			TO FLOWER DE	CEMBER 31		
40-45°	Aug. 6 Aug. 6	Aug. 27 Aug. 27	Aug. 6-Sept. 24 Aug. 6-Oct. 15	Sept. 24 No Shade	List E , page 39	 List J , page 39
35-40°	Aug. 13 Aug. 13	Sept. 3 Sept. 3	Aug. 13-Sept. 24 Aug. 13-Oct. 15	Sept. 24 No Shade	List E , page 39	List J , page 39
30-35°	Aug. 20 Aug. 20	Sept. 10 Sept. 10	Aug. 20-Oct. 8 Aug. 20-Oct. 15	No Shade No Shade	List G , page 39	 List K, page 39
25-30°	Sept. 10	Sept. 24	Sept. 10-Oct. 22	No Shade	List F , page 39	List K, page 39
			TO FLOWER JA	ANUARY 7		
40-45°	Aug. 6 Aug. 6	Aug. 27 Aug. 27	Aug. 6-Oct. 1 Aug. 6-Oct. 22	Oct. 1 No Shade	List E , page 39	List J , page 39
35-40°	Aug. 13 Aug. 13	Sept. 3 Sept. 3	Aug. 13-Oct. 1 Aug. 13-Oct. 22	Oct. 1 No Shade	List E , page 39	List J , page 39
30-35°	Aug. 20 Aug. 20	Sept. 10 Sept. 10	Aug. 20-Oct. 15 Aug. 20-Oct. 22	No Shade No Shade	List G , page 39	 List K, page 39
25-30°	Sept. 17 Sept. 17	Oct. 1	Sept. 17-Oct. 15 ' Sept. 17-Oct. 22	No Shade No Shade	List G , page 39	List K , page 39
			TO FLOWER JA	NUARY 14		
40-45°	Aug. 13 Aug. 13	Sept. 3 Sept. 3	Aug. 13-Oct. 8 Aug. 13-Oct. 29	No Shade No Shade	List E , page 39	List J, page 39
35-40°	Aug. 13 Aug. 13	Sept. 10 Sept. 10	Aug. 13-Oct. 8 Aug. 13-Oct. 29	No Shade No Shade	List E , page 39	List J , page 39
30-35°	Aug. 27 Aug. 27	Sept. 17 Sept. 17	Aug. 27-Oct. 22 Aug. 27-Oct. 29	No Shade No Shade	List G , page 39	List K , page 39
25-30°	Sept. 24 Sept. 24	Oct. 8 Oct. 8	Sept. 24-Oct. 22 Sept. 24-Oct. 29	No Shade No Shade	List G , page 39	List K , page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



TO FLOWER JANUARY 21

Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	Aug. 13 Aug. 13	Sept. 10 Sept. 10	Aug. 13-Oct. 15 Aug. 13-Nov. 5	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Aug. 20 Aug. 20	Sept. 17 Sept. 17	Aug. 20-Oct. 15 Aug. 20-Nov. 5	No Shade No Shade	List E , page 39	List J , page 39
30-35°	Sept. 3 Sept. 3	Sept. 24 Sept. 24	Sept. 3-Oct. 29 Sept. 3-Nov. 5	No Shade No Shade	List G , page 39	List K , page 39
25-30°	Oct. 1 Oct. 1	Oct. 15 Oct. 15	Oct. 1-Oct. 29 Oct. 1-Nov. 5	No Shade No Shade	List G, page 39	List K , page 39

TO FLOWER JANUARY 28

40-45°	Aug. 20 Aug. 20	Sept. 17 Sept. 17	Aug. 20-Oct. 22 Aug. 20-Nov. 12	No Shade No Shade	List E , page 39	List J , page 39
35-40°	* Aug. 27 Aug. 27	Sept. 24 Sept. 24	Aug. 27-Oct. 22 Aug. 27-Nov. 12	No Shade No Shade	List E , page 39	List J , page 39
30-35°	Sept. 10 Sept. 10	Oct. 1 Oct. 1	Sept. 10-Nov. 5 Sept. 10-Nov. 12	No Shade No Shade	List G , page 39	List K , page 39
25-30°	Oct. 8 Oct. 8	Oct. 22 Oct. 22	Oct. 8-Nov. 5 Oct. 8-Nov. 12	No Shade No Shade	List G , page 39	 List K, page 39

TO FLOWER FEBRUARY 4

40-45°	Sept. 3 Sept. 3	Oct. 1 Oct. 1	Sept. 3-Oct. 29 Sept. 3-Nov. 19	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Sept. 3 Sept. 3	Oct. 1 Oct. 1	Sept. 3-Oct. 29 Sept. 3-Nov. 19	No Shade No Shade	List E , page 39	List J, page 39
30-35°	Sept. 17 Sept. 17	Oct. 8	Sept. 17-Nov. 12 Sept. 17-Nov. 19	No Shade No Shade	List G, page 39	 List K, page 39
25-30°	Oct. 15 Oct. 15	Oct. 29 Oct. 29	Oct. 15-Nov. 12 Oct. 15-Nov. 19	No Shade No Shade	List G, page 39	List K, page 39

TO FLOWER FEBRUARY 11

40-45°	Sept. 3 Sept. 3	Oct. 1 Oct. 1	Sept. 3-Nov. 5 Sept. 3-Nov. 26	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Sept. 10 Sept. 10	Oct. 8 Oct. 8	Sept. 10-Nov. 5 Sept. 10-Nov. 26	No Shade No Shade	List E , page 39	List J , page 39
30-35°	Sept. 24 Sept. 24	Oct. 15 Oct. 15	Sept. 24-Nov. 19 Sept. 24-Nov. 26	No Shade No Shade	List G , page 39	List K, page 39
25-30°	Oct. 22 Oct. 22	Nov. 5 Nov. 5	Oct. 22-Nov. 19 Oct. 22-Nov. 26	No Shade No Shade	List G , page 39	List K , page 39

TO FLOWER FEBRUARY 18

40-45°	Sept. 10 Sept. 10	Oct. 8 Oct. 8	Sept. 10-Nov. 12 Sept. 10-Dec. 3	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Sept. 17 Sept. 17	Oct. 15 Oct. 15	Sept. 17-Nov. 12 Sept. 17-Dec. 3	No Shade No Shade	List E , page 39	List J, page 39
30-35°	Oct. 1 Oct. 1	Oct. 22 Oct. 22	Oct. 1-Nov. 26 Oct. 1-Dec. 3	No Shade No Shade	List G, page 39	List K , page 39
25-30°	Oct. 29	Nov. 12	Oct. 29-Dec. 10	No Shade	List F , page 39	List K , page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.



			TO FLOWER FEI	BRUARY 25		
Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	Sept. 17 Sept. 17	Oct. 15 Oct. 15	Sept. 17-Nov. 19 Sept. 17-Dec. 10	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Sept. 24 Sept. 24	Oct. 22 Oct. 22	Sept. 24-Nov. 19 Sept. 24-Dec. 10	No Shade No Shade	List E , page 39	List J , page 39
30-35°	Oct. 8 Oct. 8	Oct. 29 Oct. 29	Oct. 8-Dec. 3 Oct. 8-Dec. 10	No Shade No Shade	List G, page 39	List K, page 39
25-30°	Nov. 5	Nov. 19	Nov. 5-Dec. 17	No Shade	List F, page 39	List K , page 39
			TO FLOWER	MARCH 4		
40-45°.	Sept. 24 Sept. 24	Oct. 22 Oct. 22	Sept. 24-Nov. 26 Sept. 24-Dec. 17	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Oct. 1 Oct. 1	Oct. 29 Oct. 29	Oct. 1-Dec. 3 Oct. 1-Dec. 17	No Shade No Shade	List D , page 39	List J , page 39
30-35°	Oct. 8	Nov. 5	Oct. 8-Dec. 24	No Shade	List A , page 38	List K , page 39
25-30°	Nov. 19	Dec. 3	Nov. 19-Dec. 24	No Shade	List F , page 39	List K , page 39
			TO FLOWER A	AARCH 11		
40-45°	Oct. 1 Oct. 1	Oct. 29 Oct. 29	Oct. 1-Dec. 3 Oct. 1-Dec. 24	No Shade No Shade	List E , page 39	List J , page 39
35-40°	Oct. 8 Oct. 8	Nov. 5 Nov. 5	Oct. 8-Dec. 10 Oct. 8-Dec. 24	No Shade No Shade	List D , page 39	List J , page 39
30-35°	Oct. 15	Nov. 12	Oct. 15-Dec. 31	No Shade	List A , page 38	List K , page 39
25-30°	Nov. 26	Dec. 10	Nov. 26-Dec. 31	No Shade	List F , page 39	List K , page 39
			TO FLOWER A	AARCH 18		
40-45°	Oct. 8 Oct. 8	Nov. 5 Nov. 5	Oct. 8-Dec. 17 Oct. 8-Dec. 31	No Shade No Shade	List D, page 39	List J, page 39
35-40°	Oct. 15 Oct. 15	Nov. 12 Nov. 12	Oct. 15-Dec. 17 Oct. 15-Dec. 31	No Shade No Shade	List D , page 39	List J, page 39
30-35°	Oct. 22	Nov. 19	Oct. 22-Jan. 7	No Shade	List A , page 38	List K, page 39
25-30°	Nov. 26	Dec. 17	Nov. 26-Jan. 7	No Shade	List F, page 39	List K, page 39
			TO FLOWER A	AARCH 25		
40-45°	Oct. 15	Nov. 12	Oct. 15-Dec. 24	Feb. 15 if no buds	List D , page 39	
	Oct. 15	Nov. 12	Oct. 15-Jan. 7	Feb. 15 if no buds		List J , page 39
35-40°	Oct. 22	Nov. 19	Oct. 22-Dec. 24	Feb. 15 if no buds	List D , page 39	
	Oct. 22	Nov. 19	Oct. 22-Jan. 7	Feb. 15 if no buds		List J , page 39
30-35°	Oct. 29	Nov. 26	Oct. 29-Jan. 14	No Shade	List A, page 38	List K , page 39
2 5-30°	Dec. 3	Dec. 24	Dec. 3-Jan. 14	No Shade	List F , page 39	List K , page 39
			TO FLOWER	APRIL .1		
40-45°	Oct. 22	Nov. 19	Oct. 22-Dec. 31	Feb. 15 if no buds	List D , page 39	
	Oct. 22	Nov. 19	Oct. 22-Jan. 14	Feb. 15 if no buds		List J , page 39
35-40°	Oct. 29	Nov. 26	Oct. 29-Jan. 14	Feb. 15 if no buds	List B , page 38	List J, page 39
30-35°	Nov. 5	Dec. 3	Nov. 5-Jan. 21	No Shade	List A , page 38	List K , page 39
25-30°	Dec. 10	Dec. 31	Dec. 10-Jan. 21	No Shade	List F , page 39	List K , page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.

TO FLOWER APRIL 8

Latitude (See Page 29)	Plant Cuttings	Pinch*	Lighting Period	Start Shade	USE THESE Pompons	VARIETIES Standards
40-45°	Nov. 5	Dec. 3	Nov. 5-Jan. 7 .	Feb. 15 if no buds	List D , page 39	
	Nov. 5	Dec. 3	Nov. 5-Jan. 21	Feb. 15 if no buds		List J , page 39
35-40°	Nov. 12	Dec. 10	Nov. 12-Jan. 21	Feb. 15 if no buds	List B , below	List J , page 39
30-35°	Nov. 19	Dec. 17	Nov. 19-Jan. 28	Mar. 15 if no buds	List A , below	List K , page 39
25-30°	Dec. 17	Jan. 7	Dec. 17-Jan. 28	No Shade	List F , page 39	List K, page 39

^{*}For single stem culture: plant cuttings on pinch date given above. During lighting periods, start lights same day you plant.

RECOMMENDED VARIETIES

(For Year 'Round Flowering)

The following variety recommendations are keyed by letter groups to the flowering schedules starting on page 30. For example, to flower Mums on April 16, the schedule on page 30 refers to variety list "B" and "J." List "B" below includes our recommendations for Pomps for this period; list "J" our recommendations for Standards.

These variety recommendations are based on our year 'round flowering trial program conducted at West Chicago. During the past year over 240 varieties (new and old) were flowered at different periods. The following selections are those that rated "tops" in our book. Experiences of growers in other sections have also guided us in making up these lists.

Variety List	White	Yellow	Pink	Bronze
A	Shasta* Illini Snowdrift* Wh. Popcorn* Wh. Mensa* Keepsake* Songster* Pristine Popcorn Halo Pinocchio Madonna Norona	Mary L. Hall* Gold Coast* Golden Herald* Yel. Shasta* Gold. Mensa* Starbright* Crescendo Sch. Yel. Daisy Brigadoon Sunup	Linda Lou* Reward* Jessie Pandora Ballerina Memorial C. Yosick Dk. Linda Lou	Rubicon* Chevron* Buckskin Buccaneer Beauregard
В	Shasta* Illini Snowdrift* White Mensa* Priscilla Matchless Madonna Paramount Sculpture Eskimo	Yel. Shasta* Golden Mensa* Forty-Niner Brigadoon Mary L. Hall Gold Coast	Masterpiece* Grand Slam* Linda Lou* Minuet	Rubicon Chevron
C	Priscilla* Shasta* Illini Snowdrift* Dynamo* Paramount* Encore Seagull Little America Crystal Beauty Moonglow	Golden Chord* Klondike* P:ppin* Lollipop* Yel. Shasta Bojangles	Grand Slam* Linda Lou* Minuet Soprano Pinky Majorette	Rusticon* Rubicon* Beauregard* Chevron Festival Paragon Mrs. Dewey Buckskin



		WEST CHICA	GO R	ELUKISIS
Variety List	White	Yellow	Pink	Bronze
D	Belray* Yukon* Acclaim Fortune Cameo Satellite Snow Queen Monarch Wh. Valencia	Corsair* Cinderella* Omega Jackpot Yel. Valencia Highlander	Debutante* Enchantress Orchid Valencia Dk. Valencia	Galaxy* Holiday Christmas Star Mahogany Viking
E	Silversmith* Yukon* Snowcrest* Heirloom Snowcap Acclaim Cameo	Corsair* Vibrant* Cinderella* Golden Anniversary Omega Sequin Yel. Riviera Yuleflame Siren Shamrock	Debutante* Riviera* Medallion Minstrel Defiance	Br. Riviera* Merrymaker* Sarong Christmas Greeting Christmas Star Claret Poinsettia (Novelty)
F	Encore* Shasta* Wh. Popcorn* Keepsake* Pristine* Seagull Songster Moonglow Matchless	Mary L. Hall* Gold Coast* Yel. Shasta* Golden Herald Sch. Yel. Daisy Sunray Constellation Brigadoon Barcarole	Linda Lou* Reward* Ballerina* Pink Dot Pandora Memorial Taffeta Masterpiece	Rubicon* Beauregard* Paragon Buckskin Buccaneer
G	Belray* Shasta* Wh. Valencia* Paramount* Priscilla* Encore Fortune / Highbrow Sculpture	Omega* Golden Chord* Yel. Valencia* Forty-Niner* Lollipop* Goldsmith Highlander Yel. Nevada Princeton Yel. Shasta Brigadoon	Linda Lou* Minuet Dk. Valencia Sal. Valencia Grand Slam Memorial Pandora Masterpiece Taffeta	Galaxy* Thelma* Apr. Valencia* Rusticon* Rubicon* Beauregard* Paragon Br. Goldsmith
H	Betsy Ross* Queen's Lace* Mefo	Good News* Yel. Lace* Yel. Mefo	Dk. Orch. Queen	Mrs. Roy
J	Ind. White* Mefo* Queen's Lace* Jean Elizabeth	Ind. Yellow* Yel. Mefo* Yel. Lace*	,Ind. Pink	Mrs. Roy* Detroit News* Ind. Bronze
K	Ind. White* Mefo* Queen's Lace* Jean Elizabeth Betsy Ross	Ind. Yellow* Yel. Mefo* Yel. Lace* Good News	Ind. Pink Dk. Orch. Queen	Mrs. Roy* Detroit News* Ind. Bronze



POT MUMS 'ROUND THE YEAR

As with cut flower Mums the "season" for pot Mums is gradually spreading. Early shading for flowering thru August, September and October is common. This past season a great increase was noted in pot Mums flowered during spring and early summer. They make a nice plant at this time and are not hard to grow. The pot Mums produced this past spring in our own trial program were eagerly bought up before they were really open—"something different" is the usual comment. Pot Mums during the real winter months (January-March) are not so easy to grow, but with more experience, plus better varieties now on the way, they may become a serious winter pot plant, too.

The tables (page 41) are self-explanatory as to dates for planting, pinching, shading, etc. We should point out that, owing to the rather limited experience and records available, these tables may not prove entirely accurate under your conditions. Our tests this past spring pointed out how much flowering can be delayed by cooler temperatures. Bob Jung of Indianapolis reports that long spells of cloudy weather in midwinter will shorten days so much as to advance flowering dates substantially. Also, it will result in very short plants. Southern growers will find further corrections necessary—as with cut Mum schedules.

Especially on winter and even spring flowering schedules where growers have not had previous experience, we recommend that your first season's plantings not be too large.

If you plan to give Mums a try, we urge you to keep complete records of what you do, flowering dates and height at flowering time. Without this information, you will not be able to make the adjustments in dates for *next* year's program that will enable you to improve the quality of plants you grow.

About Shading

Apply black cloth to all plants on "start shade" date (see table) daily from 5 P.M. to 7:30 A.M. Black cloth shading is not needed between October 5 and February 15 because days are naturally short enough to set buds.

Lights

Light all plants between planting date and "start shade" date as follows:

During '	Hours per night	During	Hours per night
August		January	
September	2½	February	4
October	3	March	3
November	4	April	2
December	5		

Artificial light is not necessary between May 1 and August 1 because days are normally long enough to prevent budding.

One Pinch, Two Pinches, or Three?

It seems to be a question of what price plant your trade calls for. A three-pinch plant is heavier and finer—but it takes three weeks longer to grow than a two-pinch plant. Three pinches mean more disbudding, watering, spraying, and the cost of pinching, too. The same differences apply between two pinches and one pinch. In general it is possible to make up for the difference between one and two-pinch plants by using more cuttings—many growers do. A two-pinch 6 inch plant in the spring may bring \$1.75 (wholesale) where a single pinch (same number of cuttings) flowered at the same time would go for \$1.50.

In general it seems that most plants produced in the January-March period are single-pinch plants—perhaps partly be-

cause space is at more of a premium then. Spring plants (flowered April-June) are predominantly single-pinch, but two-pinch plants are grown during this period. Plants flowerered in summer are usually two-pinch, with some pinched three times. Toward fall more and more three-pinch plants are grown.

Two-pinch plants tend to be not quite so tall as three-pinch plants.

There are schedules where the grower pots the cutting, pinches, and starts to shade all on the same date—"pot, pinch, and shade." In general, recent experience seems to favor a period of at least a week or two between planting cuttings and the shade-pinch date.

About Temperatures

At least a 60° minimum temperature must be provided between "start shade" date and formation of buds. As with cut Mums, this can be provided in a 50-55° house by setting plants on a raised bench, covering them with sateen after dark, and turning on pipe below the bench.

Before and after this period, 60° is recommended. Growing at much less than 60° during this "before and after" period will tend to delay flowering; the schedule must be advanced a week or two accordingly.

Bob Jung has grown excellent quality Bonaffon DeLuxe and Queen of Pinks for February-March flowering at 65° to 70° nights right thru. One lot flowered at a straight 70° minimum was especially fine and hard—no staking, of course. Bob recommends a straight 65° minimum for late winterspring flowering of pot Mums. Higher temperatures give fuller, better flower sprays; and do not soften plants if proper varieties are used. Blazing Gold won't stand these high temperatures in winter.

Incidentally, it was our experience that, when growing for a certain holiday, it worked out better to aim our schedule to be in flower a week, or even more, ahead of the actual

A nicely done specimen of Bonnaffon Deluxe. It's a two pinch plant, three cuttings in a 6 inch pot. Few varieties will break freely enough after pinching to produce such a head of blooms. Bonnaffon is one of the best. See pages 44 and 45 for schedules.





holiday date. At best, plants to be sold for Mother's Day must be out where the customers can see them thru the week before.

How Many Cuttings Per Pot?

Note, for example, under single pinch plants for April-May-June blooming, that 4 cuttings are recommended for a 6 inch pot. Actually, 3 cuttings will make a presentable plant in most cases—and 5 will make a fuller looking plant than 4. Try it out both ways for yourself. Varieties that break easily and quickly require fewer cuttings per pot. It really depends on what your trade calls for. Also, a very nice plant can be produced with fewer cuttings in smaller pots-5's, or

One of the best pot Mum growers we have seen grows everything right thru the year at 5 cuttings per 6-inch pot regardless.

If Plants Flower Too Tall

Most growers aim at a 15 to 18-inch plant.

Stem length on the finished plant can be shortened by delaying the final pinch a week—or even two weeks longer than the schedule calls for. Let's take Queen's Lace on the twopinch schedule for October 1 flowering: The schedule calls for final pinch 9 weeks before flowering date. If too tall, next season make final pinch 8 weeks before desired flowering date. All other dates remain the same.

The date you start shading controls the date the plants flower. If a lot of plants flower a week late this year, simply move the entire schedule up one week earlier next year.

Notes on Pot Mum Culture

Probably you've grown them before; if not, here are some

suggestions.

We find either peat or manure added to the soil will really make 'em grow. It also cuts down watering. Superphosphate should be added to soil before potting. As plants get into active growth, we give them a weekly feeding with a not strong, balanced liquid fertilizer. Weekly spraying with wettable Parathion (see page 25) will control insects.

Like any other Mums, pot Mums appreciate a "wetting down" of foliage on hot afternoons. They like humidity. And incidentally, they don't like to get dry at the roots. Pot Mums can be summered over outdoors in frames or in cloth houses; but they require such careful watching that it's almost better to have them under glass.

About disbudding. As plants set bud, each stem should be disbudded to leave only the center bud. Exceptions: a very few Pomps grown as a pot plant, such as Gypsy, Sunray and Linda Lou.

Avoid crowding the plants; it makes them tall, spindly, and

Leave 3 sets of leaves as you pinch each time, if possible. All pinches should be into soft wood. Often it is possible to use the tips you remove for cuttings for later flowerings. But don't get off schedule to economize on a few cuttings-it doesn't pay!

HARDIES AT POT PLANTS

For the past several springs, increasing numbers of growers have finished a batch of hardy or garden Mums in pots for Mother's Day. They are quickly (90 days) and easily grown, make showy and unusual pot plants. They have added sales appeal in that, after flowering, they may be planted outdoors for another crop of blooms in the fall.

Here is a simple schedule worked out by William Skou at

Ohio State: (For May 1 flowering).

February 8: Plant 5 rooted cuttings in a 5 or 6 inch pot, pinch same day and start lighting 5 hours per night. Same light intensity as for cut Mums. Minimum temperature throughout the crop: 60 degrees.

March 8: Discontinue lights. Pinch plants again, start regular black cloth shading from 5 P.M. to 8 A.M. daily till plants

are in flower.

Varieties: (Date after each variety is flowering date if above schedule is followed.)

White: Avalanche, April 28; Calcite, May 7; Christopher Columbus, May 7; Classic, May 1; Pepita, May 1; Renown, April 28; Silverplate, April 29; White Wonder, May 7.

Yellow: Bamboo, May 3; Carnival, May 7; Early Gold, April 28; Early Yellow, May 3; Gold Rush, May 2; Lemonade, April 28; September Sunshine, May 3; Witchery, May 3; Yellow Christopher Columbus, May 1; Yellow Spoon, May 1; Yellow Supreme, May 10.

Pink: Joybringer, May 2; Major Cushion, May 3; September Cheer, May 3; Serenade, April 28.

Apricot: Calico, May 1; Tiffany Rose, April 28; W. P. Snyder, April 28.

Bronze: Carmelita, May 1; Early Bronze, April 28; James Stewart, May 1; Mona, May 1.

Orchid: Jewel, April 28; Spellbound, April 28.

POT MUMS ONE-PINCH SCHEDULE

Varieties	Pot 4 Cuttings per 6 inch pot	Pinch	Lighting Period	Start Shade	To Flower
Blazing Gold	Oct. 31	Nov. 11	Oct. 31-Nov. 11	No	1
Granite State	Oct. 23	Nov. 4	Oct. 23-Nov. 4	No	
Queen's Lace* Yellow Lace* Ind. White* Dark Ind. Yellow* Ind. Pink Little America	Oct. 22	Oct. 28	Oct. 22-Oct. 28	No	JANUARY 6
Richard Mandel Queen of Pinks*	Oct. 17	Oct. 28	Oct. 17-Oct. 28	No	
Bonnaffon DeLuxe*	Oct. 10	Oct. 21	Oct. 10-Oct. 21	No	
¹ No-Pinch Indianapolis*	Oct. 24	No Pinch	Oct. 24-Oct. 28	No	

Really fine! Plant 5-7 cuttings per 6 inch pot; give 4 long days and have salable plants in 9-10 weeks.

Varieties	Pot 4 Cuttings per 6 inch pot	Pinch	Lighting Period	Start Shade	To Flower
Blazing Gold	Nov. 14	Nov. 25	Nov. 14-Nov. 25	No	
Granite State	Nov. 6	Nov. 18	Nov. 6-Nov. 18	No	
Queen's Lace*	Nov. 5	Nov. 11	Nov. 5-Nov. 11	No	
Yellow Lace*					
nd. White*					
Ok. Ind. Yellow*					JANUARY 2
nd. Pink					1
Little America				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_\
Richard Mandel	Oct. 31	Nov. 11	Oct. 31-Nov. 11	No	
Queen of Pinks*	0 + 24	N1. 4	0-1-24-N4	No	-
Bonnaffon DeLuxe*	Oct. 24	Nov. 4	Oct. 24-Nov. 4		_ ′
No-Pinch Indianapolis*	Nov. 7	No Pinch	Nov. 7-Nov. 11	No	_
Granite State	Nov. 20	Dec. 2	Nov. 20-Dec. 2	No	_
Dueen's Lace*	Nov. 19	Nov. 25	Nov. 19-Nov. 25	No	
Yellow Lace*	, 1404. 19	1404. 25	1907. 19-1907. 23	140	
Ind. White*					/
Dk. Ind. Yellow* Ind. Pink					FEBRUARY
Little America					ILDROARI
Queen of Pinks*	Nov. 14	Nov. 25	Nov. 14-Nov. 25	. No	
Bonnaffon Deluxe*	Nov. 7	Nov. 18	Nov. 7-Nov. 18	No	_)
No-Pinch Indianapolis*	Nov. 21	No Pinch	Nov. 21-Nov. 25	No	-
Granite State	Dec. 4	Dec. 16	Dec. 4-Dec. 16	No	
Queen's Lace*	Dec. 3	Dec. 9	Dec. 3-Dec. 9	No	
Ŷellow Lace* Inď. White*					1
Dk. Ind. Yellow*					
Ind. Pink					FEBRUARY 1
Little America Oueen of Pinks*	Nov. 28	Dec. 9	Nov. 28-Dec. 9	No	
`	Nov. 21		Nov. 21-Dec. 2		_\
Bonnaffon Deluxe*		Dec. 2		, No	_
No-Pinch Indianapolis*	Dec. 5	No Pinch	Dec. 5-Dec. 9	No	_
Granite State	Dec. 25	Jan. 6	Dec. 25-Jan. 6	No	
Queen's Lace*	Dec. 24	Dec. 30	Dec. 24-Dec. 30	No	-\
Yellow Lace*	Dec. 24	Dec. 50	Dec. 2,4-Dec. 50	140	
Ind. White*					
Dk. Ind. Yellow* Ind. Pink					MARCH 10
Little America					MARCHITO
Queen of Pinks*	Dec. 19	Dec. 30	Dec. 19-Dec. 30	No	
Bonnaffon Deluxe*	Dec. 12	Dec. 23	Dec. 12-Dec. 23	No	
No-Pinch Indianapolis	Dec. 26	No Pinch	Dec. 26-Dec. 30	No	— /
Granite State	Jan. 8	Jan. 20	Jan. 8-Jan. 20	No	_\
Queen's Lace*	Jan. 7	Jan. 13	Jan. 7-Jan. 13	No	
Yellow Lace* Ind. White*					
Dk. Ind. Yellow*					
Ind. Pink Little America					MARCH 2
Queen of Pinks*	Jan. 2	Jan. 13	Jan. 2-Jan. 13	No	
Sonnaffon Deluxe*	Dec. 26	Jan. 6	Dec. 26-Jan. 6	No	
		TUIL U	DEC. 20=300. 0	1710	

^{*}Preferred varieties.

¹Really fine! Plant 5-7 cuttings per 6 inch pot; give 4 long days and have salable plants in 9-10 weeks.

Varieties	Pot 4 Cuttings per 6 inch pot	Pinch	Lighting Period	Start Shade	To Flower
Blazing Gold	Jan. 29	Feb. 5	Jan. 29-Feb. 5	March 15 \if no buds	
Sunray (Do not disbud) Granite State	Jan. 22	Jan. 29	Jan. 22-Jan. 29	March 15 if no buds	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Ind. Pink Little America Linda Lou (Do not disbud) Queen of Pinks*	Jan. 15	Jan. 22	Jan. 15-Jan. 22	March 15 if no buds	APRIL 2
Bonnaffon Deluxe*	Jan. 8	Jan. 15	Jan. 8-Jan. 15	Feb. 15	
¹ No-Pinch Indianapolis*	Jan. 17	No Pinch	Jan. 17-Jan. 21	March 15 if no buds	
Blazing Gold	Feb. 12	Feb. 19	Feb. 12-Feb. 19	Mar. 15	
Sunray (Do not disbud) Granite State	Feb. 5	Feb. 12	Feb. 5-Feb. 12	Mar. 15	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Ind. Pink Little America Linda Lou (Do not disbud) Queen of Pinks*	Jan. 29	Feb. 5	Jan. 29-Feb. 5	Mar. 15	APRIL 16
Bonnaffon Deluxe*	Jan. 22	Jan. 29	Jan. 22-Jan. 29	Feb. 15	
¹ No-Pinch Indianapolis*	Jan. 31	No Pinch	Jan. 31-Feb. 4	Mar. 15 /	
Blazing Gold	Feb. 26	Mar. 5	Feb. 26-Mar. 5	Mar. 15	
Sunray (Do not disbud) Granite State	Feb. 19	Feb. 26	Feb. 19-Feb. 26	.Mar. 15	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Ind. Pink Little America Linda Lou (Do not disbud) Queen of Pinks*	Feb. 12	Feb. 19	Feb. 12-Feb., 19	Mar. 15 /	APRIL 30
Bonnaffon Deluxe*	Feb. 5	Feb. 12	Feb. 5-Feb. 12	Feb. 15	
No-Pinch Indianapolis*	Feb. 14	No Pinch	Feb. 14-Feb. 18	Mar. 15 /	
Blazing Gold	Mar. 12	Mar. 19	Mar. 12-Mar. 19	Mar. 19	
Sunray (Do not disbud) Granite State	Mar. 5	Mar. 12	Mar. 5-Mar. 12	Mar. 15	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Ind. Pink Queen of Pinks*	Feb. 26	Mar. 5	Feb. 26-Mar. 5	Mar. 15 /	MAY 14
Bonnaffon Deluxe*	Feb. 19	Feb. 26	Feb. 19-Feb. 26	Feb. 26	
No-Pinch Indianapolis*	Feb. 28	No Pinch	Feb. 28-Mar. 4	Mar. 15	

^{*}Preferred varieties.

¹Really fine! Plant 5-7 cuttings per 6 inch pot; give 4 long days and have salable plants in 9-10 weeks.



Varieties	Pot 4 Cuttings per 6 inch pot	Pinch	Lighting Period	Start Shade	To Flower
Blazing Gold	Mar. 26	Apr. 2	Mar. 26-Apr. 2	Apr. 2	
Sunray (Do not disbud) Granite State	Mar. 19	Mar. 26	Mar. 19-Mar. 26	Mar. 26	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Ind. Pink Queen of Pinks*	Mar. 12	Mar. 19	Mar. 12-Mar. 19	Mar. 19	MAY 28
Bonnaffon Deluxe*	Mar. 5	Mar. 12	Mar. 5-Mar. 12	Mar. 12	
No-Pinch Indianapolis*	Mar. 14	No Pinch	Mar. 14-Mar. 18	Mar. 18	
Blazing Gold	Apr. 9	Apr. 16	Apr. 9-Apr. 16	Apr. 16	
Granite State Sunray (Do not disbud)	Apr. 2	Apr. 9	Apr. 2-Apr. 9	Apr. 9	
Queen's Lace* Yellow Lace* Ind. White* Dk. Ind. Yellow* Richard Mandel Queen of Pinks*	Mar. 26	Apr. 2	Mar. 26-Apr. 2	Apr. 2	JUNE 11
Bonnaffon Deluxe*	Mar. 19	Mar. 26	Mar. 19-Mar. 26	Mar. 26	
¹ No-Pinch Indianapolis*	Mar. 28	No pinch	Mar. 28-Apr. 1	Apr. 1 /	
Blazing Gold*	Apr. 23	Apr. 30	Apr. 23-Apr. 30	Apr. 30	
Granite State Sunray (Do not disbud)	Apr. 16	Apr. 23	Apr. 16-Apr. 23	Apr. 23	
Queen's Lace Yellow Lace Ind. White Dk. Ind. Yellow Richard Mandel Queen of Pinks	Apr. 9	Apr. 16	Apr. 9-Apr. 16	Apr. 16	JUNE 25
Bonnaffon Deluxe*	Apr. 2	Apr. 9	Apr. 2-Apr. 9	Apr. 9	
No-Pinch Indianapolis*	Apr. 11	No Pinch	Apr. 11-Apr. 15	Apr. 15	
Blazing Gold*	May 14	May 21	May 14-May 21	May 21	
Granite State Sunray (Do not disbud)	May 7	May 14	May 7-May 14	May 14	JULY 16
Richard Mandel	Apr. 30	May 7	Apr. 30-May 7	May 7	
Bonnaffon Deluxe*	Apr. 23	Apr. 30	Apr. 23-Apr. 30	Apr. 30	
Blazing Gold*	May 28	June 4	May 28-June 4	June 4	
Granite State Sunray (Do not disbud)	May 21	May 28	May 21-May 28	May 28	JULY 30
Richard Mandel	May 14	May 21	May 14-May 21	May 21	
Bonnaffon Deluxe*	May 7	May 14	May 7-May 14	May 14	

TWO-PINCH SCHEDULE

Varieties	Pot 3 Cuttings per 6 inch pot	First Pinch	Lighting Period	Final Pinch	Start Shade	To Flower
Blazing Gold*	May 14	May 21	None	June 11	June 11	1
Granite State Sunray (Do not disbud)	May 7	May 14	Apr. 30-May 1	June 4	June 4) AUGUST 6
Richard Mandel	Apr. 30	May 7	Apr. 23-May 1	May 28	May 28	AUGUST 6
Bonnaffon DeLuxe*	Apr. 23	Apr. 30	Apr. 16-May 1	May 21	May 21)

^{*}Preferred varieties.

²Really fine! Plant 5-7 cuttings per 6 inch pot; give 4 long days and have salable plants in 9-10 weeks.



Varieties	Pot 3 Cuttings per 6 inch pot	Pinch	Lighting Period	Final Pinch	Start Shade	To Flower
Blazing Gold*	May 28	June 4	None	June 25	June 25	
Granite State Sunray (Do not disbud)	May 21	May 28	None	June 18	June 18	AUGUST 20
Richard Mandel	May 14	May 21	None	June 11	June 11	A00031 20
Bonnaffon DeLuxe*	. May 7	May 14	Apr. 30-May 1	June 4	June 4	-) -
Blazing Gold	June 11	June 18	None	July.9	July 9	_\
Granite State Sunray (Do not disbud)	June 4	June 11	None	July 2	July 2	
Richard Mandel Gypsy (Do not disbud) Queen of Pinks*	May 28	June 4	None	June 25	June 25	SEPTEMBER 3
Bonnaffon DeLuxe*	May 21	May 28	None	June 18	June 18	-/ -
Blazing Gold	√ June 25 ·	July 2	None	July 23	July 23	_\
Granite State Sunray (Do not disbud)	June 18	June 25	None	July 16	July 16	
Richard Mandel Gypsy (Do not disbud) Queen of Pinks*	June 11	June 18	None	July 9	July 9	SEPTEMBER 17
Bonnaffon DeLuxe*	June 4	June 11	None	July 2	July 2	- /
Blazing Gold	July 9	July 16	Aug. 1-Aug. 6	Aug.6	Aug. 6	
Granite State Sunray (Do not disbud)	July 2	July 9	None	July 30	July 30	
Gypsy (Do not disbud) Queen of Pinks*	June 25	July 2	None	July 23	July 23	
Queen's Lace* Yellow Lace* Ind. White* Ind. Yellow* Ind. Pink Ind. Bronze	July 2	July 9	None	July 30	July 23	OCTOBER 1
Bonnaffon Deluxe*	June 18	June 25	None	July 16	July 16	
¹ No-Pinch Indianapolis*	July 18	No Pinch	None	No Pinch	July 22	

TO FLOWER POT MUMS AT NORMAL DATES-

(No shade or light)

Varieties	Normal flowering date	Plant 3 cuttings per 6" pot	First pinch	Second pinch	Third (final) pinch	Varieties	Normal flowering date	Plant 3 cuttings per 6" pot	First pinch	Second pinch	Third (final) pinch
*Blazing Gold *Granite State *Gold Lode	Oct. 25 Oct. 25 Oct. 15	July 5	July 12	Aug. 1	Aug. 21	*Bon. Deluxe Friendly Rival *Beaut. Lady	Nov. 20 Nov. 20 Nov. 25	July 5	July 12	Aug. 1	Sept. 3
Queen's Lace Yellow Lace *Ind. White *Ind. Yellow		July 21	July 28	Aug. 18	Sépt. 8	Sun Gold Margaret Moeller	-	July 5			Sept. 8
mg. I mk	1404. 0)	,			Smith's Late White	Dec. 15	July 5	July 12	Aug. 1	S ept. 13
*Ougen of Dinks	Nov. 10 Nov. 10	July 5	July 12	Aug. 1	Aug. 28	To grow two inate the first the second pine and make fin	pinch, ai ch date.	nd plant o Pinch once	cuttings e on "sec	two week ond pinch	s prior to n'' date

^{*}Preferred varieties.

¹Really fine! Plant 5-7 cuttings per 6 inch pot; give 4 long days, and have salable plants in 9-10 weeks.





INDEX OF GREENHOUSE VARIETIES

Variety Page	Variety Page	Variety Page	Variety Page	Variety Page
` A	Claret15	Golden Chord10	Lemonade 9	Pk. Mistletoe 6
Acclaim9	Classic 7	Golden Glory 4	Lt. Pk. Minstrel2, 17	Pk. Pockett 6
Adagio16	Cocktail13	Golden Harvest11	Lillian Doty16	Pk. Sprite16
Adelaide13	Constellation	Golden Herald10 Golden Jane11	Little America 8 Linda Lou	Pk. Treas. Is18 Pinky17
Admiral13	Copperhead14	Golden Mensa10	Lollipop11	Pinocchio 7
Albatross16	Cordova9	Golden Mistletoe 4	L. I. Beauty 8	Pippin11
Almega2, 17	Coronet18	Golden Mrs. Ross 4 Golden Pearson 4	Lorraine 6	Pixie10 Poinsettia15
Ambassador 3	Cotillion9	Goldenrod	M	Polaris9
Amber Bright5 Amberina15	Cotton Top7	Goldrush9		Ponca2, 16
Anaconda5	Courtier16	Goldtone11 Goldsmith11	Madonna 8 Maestro 7	Popcorn 7 Princess
Apr. Queen 5	Cream DotCover 2, 4	Good News 4	Magician14	Princeton10
Apr. Valencia15	Cream Snowcrest1, 12	Grand Slam17	Mah, Viking15	Priscilla 8
Arbutus	Crescendo10	Granite State3	Maj. Bowes 5	Pristine 7
Argonne16	Cr. Valencia15 Crystal Beauty8	Gypsy14	Majorette	Purdue 4
Aristocrat6	Crystal QueenCover 2, 3	н	M. Moeller 3	0
Avalanche7 Avalon12	Crystal ValenciaCover 2, 9	Halo 7	M. DePetris 4	Queen's Lace 6
/(VG1011		Harlequin15	Marketeer3 Marionette12	Queen of Pinks 6
В	D	Harvester 4	Mary Garden 6	-
Ballerina16	D.C.P1, 9	Harvest Golden4	Mary Gold10	R
Bamboo12	DalwinCover 2, 6	Has, Pink9	Mary Hall10 Mary McArthur16	Rainbow2, 16
Barcarole10	Dk. Br. Masterpiece14 Dk. Br. Minstrel1, 15	Helen Frick 6	Mason's Bronze14	Rajah13
Beauregard14 Beautiful Lady17	Dk. Bulkeley17	Heritage17	Mason's Red14	Rayonnante 6 Red Daisy13
Belray 9	Dk. Enchantress17	Highbrow 8 Highlander11	Masquerade10	Red Dot10
Betty Rose	Dk. Ind. BronzeCover 2,5	H. Bergen 5	Masterpiece17	Red GlittersCover 2, 5
Betsv Ross 3	Dk. Ind. Yellow 4 Dk. Linda Lou17	Holiday15	Matchless 8	Red Glow13
Bittersweet 4 Blazing Gold 4	Dk. Orch. Queen 6	Honeycomb9	Mayford's Triumph 5	Red Princeton15 Red Rolinda15
Blueblood12	Dk. Jewell16	Honey Dew 4 Hooked LaceCover 2, 6	Medallion	Red Rust14
Bojangles10	Dk. L. I. Beauty2, 17 Dk. Norma17	Horizon 7	Memorial17	Red Seneca13
Bon, Deluxe4	Dk. Riviera18	Huntsman12	Merrymaker15	Red Supreme15 Red Velvet12
Bonton13	Dk. Pk. Supreme17		Meteore 4 Minong 7	Remembrance12
Bourbon15	Dk. Valencia17 Dauntless4	<u>.</u>	Minstrel17	Renown 7
Brandywine	Dazzler15	I. Bountiful8	Minuet17	Rev. Bushnell 8
Brigadier16 Brigadoon10	Debonair15	1. Brave10 1. Burma14	Miss Clarinda17	Revelation9 Revelry12
Br. Forecast 9	Debutante17	1. Camille17	Misty Maid16 Mogul12	Reward16
Brocade17	Dec. Gold	I. Gold	Mona12	Richard Mandel 3
Br. Buckingham13 Br. Daisy13	Dec. White 3	I. Goldcup10 I. Honey15	Monarch 9	Riviera18 Robinhue13
Br. Dot	Defiance	I. IglooCover 2, 8	Monument 3 Moondrift	Rodell Improved10
Br. Enchantress	Detroit News 5 Detroiter	I. Redhead	Moonglow 8	Ronnie2, 16
Br. Frick	Dreamboat17	I. Rye14 I. SnowboundCover 2, 9	Moonlight9	Rosalind
Br. Linda Lou	Dream Girl16	I. Snowdrift 8	MoribanaCover 2, 6 Mrs. CalkinsCover 2, 4	Rose Masterpiece17
Br. M. McArthur1, 13	Dubonnet Valencia2, 17 Dynamo 8	I. Sunspot1, 10	Mrs. Dewey15	Rose Medallion2, 18
Br. Masterpiece14	Dyridino	1. Sunny	Mrs. DuPont13	Royal BronzeCover 2, 5
Br. Minstrel15 Br. Minuet15	F	1. Tangier	Mrs. Kidder 4 Mrs. R. A. Walker 6	Rubicon14
Br. Mistletoe 5	Fark Wander 16	I. Yel. Snowbound1, 12	Mrs. Roy 5	
Br. Orch. Queen5	Early Wonder16 Edith Roberts16	Imp. Br. Daisy	Mrs. Stahelin 5	S
Br. Princeton15 Br. Riviera15	Ed. Seidewitz 6	Imp. Ind. YelCover 2, 4 Imp. Red Daisy	Muto's Crimson 5	Salmon Masterpiece17
Br. Supreme15	Eliz. Hood16	Imp. Dk. Sup2, 17		Salmon Valencia17
Br. Thyra14	Enchantress 17 Encore 8	Ind. Bronze5	N	Salute16
Br. Tuxedo14 Buccaneer13	Enterprise16	Ind. Golden Br 5 Ind. Pink 6	Nagona 8	Samovar14
Buckskin13	Eskimo8	Ind. White 3	Navaho13	Sarong
Butterball4	Europa14 Evening Star2, 17	Ind. Yellow4	Nevada 8 Nocturne13	Sch. Daisy10
Butterscotch14	Lyening Star	Indian Head15 Indiana Market	Nokomis13	Sculpture 8
	F	Irene	Nomago 7	Seafoam 8 Seagull 7
С	Falcon15	Ivanhoe 5	Norona 7	Seneca13
Calico12	Fashion13	Ivory Sea Gull	Nosegay11 Nuggets10	Sept. Morn 7
Calif. Wh. Daisy 7 Calif. Yel. Daisy10	Festival15		Nytoda13	Sequin12 Serenade16
Cameo9	Firebird13 Firecracker12	,		Serrated Riviera2, 18
Capt. Cook16	Firefly13	J. W. Prince 6	0	Shalimar15
Caravan12	Fireside12	Jack-Pot4	Oakdale5	Shamrock12
Carmelita13	Forty Niner10	J. Stewart13	Oak Leaf 5 Oct. Bronze	Shasta 8 Shasta Daisy 8
Carnival12	Fortune	Jean Elizabeth3	Oct. Pink16	Shooting StarCover 2, 7
C. Yosick	Friendly Rival 4	Jemima13 Jessie16	Omega11	Silver Ball 7
CarraraCover 2, 9		Jewell16	Orchid Beauty17	Silverplate 7 Silver Sheen 3
Cassandra14	G	Joybringer16	Orchid Queen	Silversmith9
Cavalcade15	Galaxy15	V	Orchid Valencia17	Siren12
Celestra 4 Chalice 4	Garland 9 Garnet King 5	K KTa-laine		Sm. White 3
Challenge11	Garza9	Kay Tashima 6 Keepsake 7	Р	Sm. Superlative 4 Snow 9
Champagne	Gena Harwood 6	Klondike10	Pageantry15	Snowcap 9
Chanticleer14	Gt. Betsy RossCover 2, 3	Kolowa 8	Pandora	Snowcrest 9
Chas. Nye	Gladys Pearson 5 Glitters5		Panorama12 Paragon14	Snowflurry 8
Chevron14	Gold Braid14	L	Paramount 8	Snowline
Christina 3	Gold Coast10	Lakme 8	Peggy Hoover 6	Snow Queen 9
Christmas Greeting	Gold LaceCover 2, 6 Gold Lode4	Lassie16	Pk. Calif. Daisy16 Pink Chief5	Snow White 3
Christmas Star15	Gold Seal1, 12	Lav. QueenCover 2, 6	Pk. Dot16	Songster 7 Soprano
Cinderella11	Golden Anniversary12	Legal Tender15	Pk. L. I. Beauty	Spangles9
16				
46				



INDEX OF GREENHOUSE VARIETIES—Continued

Variety Page	Variety Page	Variety Page	Variety Page	Variety Page
Spellbound	Thanks, Pink 6 Thelma 15 The Titan 14 Thorobred 10 Thyra 17 Tobin's Yellow 4 Topaz 15 Treasure 9 Tuxedo 17 V Valencia 17 Vesper 8 Vibrant 12 Vivacious Lady 17 W Waikiki 6 Wanakah 1, 15 W. H. Buckingham 16 W. P. Snyder 12 Wh. Anemone 8 Wh. Chief 3	Wh. Cloud	Yel. Bergen	Yel. Nagona

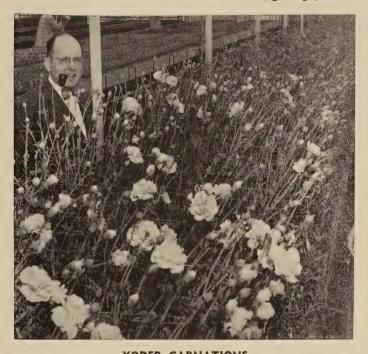
INDEX OF GARDEN (Hardy) VARIETIES

Variety Page	Variety Pag	e Variety	Page	Variety Nytoda	Page	Variety Pag Sept. Sunshine
Adagio23 Admiral22 Alert22	D. D. Ahrens	3 Irene		Old Gold		Serenade
Alex. Cummings .22 Allegro .23 Amber Glow .21 Argonne .22	Defiance	0 2 James Eadie 9 James Stewart	21	Olive Longland Orchid Helen Orchid Spoon Orloma	22 22 23	Snowfall
Autumn Song21 Avalanche19 Avalon21	Dr. Longley2 Dream Girl2 Dwight Douglas19, 2	2 Joybringer	23	Orpheus	19, 21	Sweepstake Sweetheart Symphony
Aviator21	r	К		P	2,	
		. 15 (1.1 1	an 21	Panorama		Т
В	Early Bronze2	141 141 1		Patricia Lehman .		Tangerine
Barbara Small22	Early Harvest2			Pepita	19	Tapestry
Beacon21	Early Yellow2	0	23	Pink Beauty		The Chief
Betty22	Elizabeth Hood2			Pink Opal Pink Surprise		Treasure
Blueblood21	Enterprise2 Ermine1	Lee Powell	20	Polar Ice		
Bokhara21 Bonfire21	LIMINIC	Lemonade		Polaris		٧
Brigadier21	F	Lyric	19	Pomponette		Vanguard
Bright Forecast20	Fairbow2	2 M		Purple star		Violet
Br. Pyramid22	Fascination2	Mme. Cadillac	19, 21	R		
Burgundy21 Butterball20	Fashion2	2 Maestro	20	Raiah	. 22	W
	Fiesta2	Magnificent		Red Glow	-	Welcome
С	Firecracker2	Mahogany Cusl Maj. Cushion	22	Red Gold		White Bounty
Calcite19	Flaxen Beauty	Malinda Brown	1	Red Riding Hood . Red Velvet		White Cloud
Calico22	Fragrant	Marionette	21	Remembrance		White Cushion
Canary Wonder20 Candlelight19		Masquerade Mayford's Triui	mph 21	Renown		White Spoon
Capt. J. Smith22	G	Meditation	21	Robinhue		White Wonder
Caravan 21	Garland2	Miguel	19, 21	Rodell Imp		Winsome
Cardinal Spoon21	Genista19, 2	Ming	20	Rosita		Winterset
Carmelita	Gladness2	Misty Maid Mogul	21	Rouge Cushion	21	Witchery
Carnival	Golden Carpet2	Mona	21	Royal Robe		Wychwood
Cecil Beed	Golden Hours21	Monogram	20	Ruby Pompon Ruthann Lehman		
Champion Cushion21	Golden Spoon	Moonlight	20	Kathan Echnan		Υ
Chas. Nye	Goldrush2	Mrs. DuPont Mrs. Rotan	20	S		Yel. Avalanche
Chiquita 20	н	Myrtle Walgre	en22	Salmon Precose	22	Yel. Chris Columbus
Chris, Columbus 19				Salute	23	Yel. Blanket
Classic	Harbinger2			Sam Williston		Yel. Cushion
Cocktail	Heather Bloom2 Holiday2	I Mostarie	22	Scarlet Crimson Sept. Bronze		Yel. IreneYel. Spoon
	Honeycomb2	J NOROLLIS	20	Sept. Cheer		Yel. Supreme
Courageous 21	Honeycomb					
Courageous 21 Courtier 23 Cydonia 21	Horizon1 Huntsman2	y Toloid immita	22	Sept. Dawn	22	Youdath's White



Yoder Bros.' Carnation Varieties

1952-'53 INTRODUCTIONS



YODER CARNATIONS

Geo. K. Ball looking over a bench of Yoder's new Carnations at West Chicago.

These are the first of a series of Carnations developed by Yoder Bros. of Barberton, Ohio from disease-free seedling strains. They are not disease-resistant, but they are as free of disease as you can get Carnation stock; and given the same care you would give ordinary commercial Carnation varieties, they will give you more quality flowers—more dollars per square foot of bench space than the regular varieties.

The demand for these varieties has been heavy—get your order in now to be sure of the quantities and varieties you want. Shipped from September thru June. F.O.B. Barberton, Ohio. Minimum order, 50 cuttings of a variety.

- Achilles. A large, clear white; petals deeply serrated. Larger than Jupiter and more productive. Fast, early producer on long, strong stems. Free come-back in winter. All-year white.
- **Juno.** A medium sized, flat, well-formed white flower; very full center; free come-back in winter. Good from early fall to late spring. Good keeper and shipper.
- **Titan.** An intense crimson red, not quite as tall as Vulcan. Gets into production fast. Very full flower, outstanding flower substance. Consistently high production.
- **Cupid.** Color a true Briarcliff pink; size medium. Very heavy producer, at its best December thru April. Flower is small in summer, but color remains excellent. A good keeper.
- **Eros.** Light pink, similar to Aphrodite in color, except that it is deeper in the summer and early fall. Vigorous, heavy growth; long, strong stems. Early flowering and fast comeback. Large flowers with good average production. Some splitting in early fall, but disappears as soon as night temperatures are maintained. Fine for late spring, summer and early fall.
- **Siren.** Scarlet, combining heavy production with fast comeback, uniform cropping, on stems of medium length. This variety grows to about the same height as Aphrodite and its production is equal to that of Apollo. Siren will out-produce Neptune. It should find a very important place among the varieties now available in this color class.
- Cassandra. Yellow and pink variegated; very similar to Orion, but flowers are larger and stems stronger. Variety never splits; shows excellent flower substance; an outstanding keeper.
- **Pandora.** Dark pink with sufficient suffusion of salmon to make it an exceptionally beautiful color under artificial light. This variety will fade during heat of summer, but is really a new color for December thru April. Good average production; fine flower substance.

PRICES above 8 new varieties:

Per 100

50 of a variety..\$15.00

500-950 of a variety \$12.75

100-250 of a variety.. **14.25** 1000-2450 of a variety **12.00** 2500-up of a variety.. **11.00**

Quantity prices apply to any one variety only.

LAST SEASON'S INTRODUCTIONS

WHITE

Jupiter. A large, strong stemmed white.

Aurora. Another exceptionally large, white flower. Does well in late spring and early fall.

Adonis. A winter white. Satisfactory flower quality and good production. This variety is competition for Olivette.

PINK

Apollo. An outstanding salmon pink, larger than Netta. A good summer flower, well suited to all areas of the country.

Aphrodite. A clear light pink; outside petals bleach a little in late spring and early fall, but do not burn. A good, early producer with an early comeback, it is at its best in areas of relatively high light intensity.

Diana. Light pink; a good producer.

Venus. A show variety. Extra large, beautiful, long stemmed, salmon pink flower.

ROSE

Minerva. An unusual deep scarlet pink. Good summer flower—fades in very high light intensity, but fades uniformly with no white edge. Heavy break-back; fine keeper.

RED-SCARLET

Ceres. Beautiful King Cardinal color and exceptionally high production. Early, with heavy comeback.

Neptune. Scarlet (color resembles that of Wm. Sim); a free breaker, fine stretch. A very satisfactory variety.

MAROON

Vulcan. Excellent keeper, good comeback. Best maroon.

YELLOW

Midas. A good yellow Carnation. Production very satisfactory. Strongly recommended where Miller's Yellow is a problem.

VARIEGATED

Orion. Color resembles that of Glowing Ember. An excellent grower and producer.

Saturn. A beautiful warm bronze variegated; excellent under artificial light. Promises to become a very popular novelty.

PRICES above 14 varieties:

Per 100
50 of a variety..**\$13.50**500-950 of a variety..**\$11.45**

100-250 of a variety.. **12.80** 1000-2450 of a variety **10.80** 300-450 of a variety.. **12.15** 2500 and up of a variety **10.10**

Quantity prices apply to any one variety only.



Off-Season Mum tests at West Chicago. Ratings are being recorded here in our "Gray Book" on several new varieties. These Gray Book ratings cover over 250 varieties flowered at appropriate seasons round the year, and are an important guide in our Mum programming work for other growers. Left, Jack McCluskie; right, Vic Ball.

Ball Off-Season MUM PLANNING SERVICE

Let's face it: off-season Mum schedules aren't the simplest things in the world—and the selection of proper varieties for different seasons is even more complicated. To assist our Mum customers with this important task, we have set up a Ball Mum Planning Service. In charge is our Mr. Jack McCluskie, a graduate of Penn. State, Floriculture Department. Jack has been devoting his full time to study of latest off-season Mum Schedule and variety work, has been in charge of our off-season variety testing program at West Chicago. He has programmed Mums for smaller retail growers—and for larger 3-crops-a-year market operators. The lifetime of experience by the Ball organization as market growers of Mums stands behind this service.

Why not let **specialists** give you a hand with your Mum planning? It's a free service to Ball Mum customers!

HOW THE SERVICE WORKS:

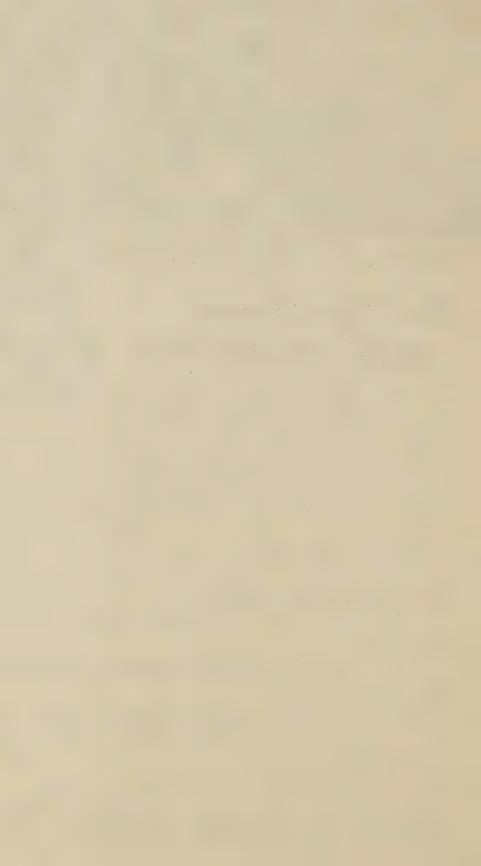
- 1. **You** furnish us the number and size of benches, when each will be available, when you want to be in flower. Specify proportion of Standards and Pomps.
- 2. We work out a **complete** planting plan—all shading, lighting dates, temperatures, varieties recommended, and number of cuttings of each. It now goes to you.
- 3. You look it over—make any changes you feel necessary, especially as regards local market preferences for colors, etc.
 - 4. Return program to us; we enter order for cuttings.

INTERESTED?

Write us, attention Mum Planning Service.

GEO. J. BALL, INC.

WEST CHICAGO





STREET OR R. F. D.

CITY AND STATE

Railroad Express Air Freight Air Express

Check one of above.

FIRM NAME

Ship By

ORDER BLANK Rooted Mum Cuttings-1953

GARDEN (HA	KDT) VARIETIES	Rec'd
Date	Terms	Ck.
		M.O.
,		Chg.
		Remittance Enclosed
4	Shipping address if diff	erent from regular mail address
When wanted		
Substitutions will be acceptable (check one) Yes No		
		1 1 1 0 11 11 11

IMPORTANT!—To insure your order being shipped on the date you specify, we suggest that you order at least 6 months in advance of delivery date. ABSOLUTELY NO CHANGES ON YOUR ORDER CAN BE ACCEPTED WITHIN 30 DAYS OF DELIVERY DATE. Minimum order 500, 50 of a variety or multiples of 50. Please mark SPECIFIC shipping date.

Adagio Admiral Alert Alex Cu Allegro Argonne Avalanc Avalanc Avalanc Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Brigatie Calcite Calcico Canary Candleli Capt. J. S.	3.2.		***************************************		Chris. Columbus Classic Cocktail Comdr. Cushion Courageous Courtier Cydonia Oark Jewell Oawn Rose Oee Dee Ahrens Defiance (H)	3.25 3.50 4.00 4.50 3.00 3.25 4.50 3.00 3.50 3.50 4.00 3.50 3.50 3.50 3.00 7.50				Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.25 3.00 4.00 3.25 3.00 5.00 3.00 4.50 3.50 3.00 3.25 4.00 3.00 4.00 6.25		
Alex Cur. Allegro Allegro Argonne Autumn Avalanc Avalon Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Bright Fo Bronze F Burgund Butterba Calcite Canary Candleli	3.5 nmings 6.2 3.2 3.5 Song 3.2 he 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5 3.5				Classic Cocktail Comdr. Cushion Courageous Courtier Cydonia Oark Jewell Oawn Rose Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Oream Girl Orifted Snow Owight Douglas	4.00 4.50 3.00 3.25 4.50 3.00 3.50 3.50 3.50 4.00 3.50 3.50 4.00 7.50				Goldrush Harbinger Heather Bloom Holiday (H) Honeycomb Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell	4.00 3.25 3.00 5.00 3.00 4.50 3.50 3.00 3.25 4.00 3.00 4.00		
Alex Cu Allegro Amber C Argonne Autumn Avalanc Avalon Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Bright Fo Bronze F Burgund Butterba Calcice Canary	nmings 6.2 3.2 slow 3.2 slow 3.2 he 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5 3.5				Cocktail Comdr. Cushion Courageous Courtier Cydonia Oark Jewell Oawn Rose Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Dream Girl Orifted Snow	4.50 3.00 3.25 4.50 3.00 3.50 3.50 3.50 4.00 3.50 3.50 4.00 7.50				Harbinger Heather Bloom Holiday (H) Honeycomb Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.25 3.00 5.00 3.00 4.50 3.50 3.00 3.25 4.00 3.00 4.00		
Allegro Amber C Argonne Avalon Avalon Avalon Aviator Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	3.2.				Comdr. Cushion Courageous Courtier Cydonia Oark Jewell Oawn Rose Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Oream Girl Orifted Snow Owight Douglas	3.00 3.25 4.50 3.00 3.50 3.50 3.50 4.00 3.50 3.50 3.50 7.50				Heather Bloom Holiday (H) Honeycomb Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.00 5.00 3.00 4.50 3.50 3.00 3.25 4.00 3.00 4.00		
Amber C Argonne Autumn Avalana Avalana Avalana Avalana Bamboo Barbara Beacon Betty Bluebloo Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Butterba Calcite Canary	Song 3.2 he 3.2 5.0 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5				Courageous Courtier Cydonia Oark Jewell Oawn Rose Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Oream Girl Orifted Snow Owight Douglas	3.25 4.50 3.00 3.00 3.50 3.50 3.50 4.00 3.50 3.00 7.50				Holiday (H) Honeycomb Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	5.00 3.00 4.50 3.50 3.00 3.00 3.25 4.00 3.00 4.00		
Argonne Autumn Avalon Avalon Aviator Bamboo Barbara Beacon Betty Bluebloo Bokhara Bonfire Brigadie Brigadie Calcite Calcico Canary	3.5 Song 3.2 he 3.2 5.0 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5				Courtier Cydonia Cark Jewell Cawn Rose Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Dream Girl Orifted Snow Owight Douglas	4.50 3.00 3.00 3.50 3.50 3.50 4.00 3.50 3.00 7.50				Honeycomb Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.00 4.50 3.50 3.00 3.00 3.25 4.00 3.00		
Autumn Avalana Avalana Avalana Avalana Avalana Avalana Bamboo Barbara Beacon Betty Bluebloo Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary Candleli	Song 3.2 he 3.2 5.0 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5 3.5				Cydonia Dark Jewell Dawn Rose Dee Dee Ahrens Defiance (H) Detroiter Dr. Longley Dream Girl Drifted Snow Dwight Douglas	3.00 3.00 3.50 3.00 3.50 3.50 4.00 3.50 3.00 7.50				Horizon Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	4.50 3.50 3.00 3.00 3.25 4.00 3.00 4.00		
Avalance Avalon Aviator Bamboo Barbara Beacon Betty Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary	Small 3.2 4.0 3.2 4.0 3.2 4.0 3.2 d 4.5 3.5				Dark Jewell Dawn Rose Dee Dee Ahrens Defiance (H) Detroiter Dr. Longley Dream Girl Drifted Snow Dwight Douglas	3.00 3.50 3.00 3.50 3.50 4.00 3.50 3.00 7.50				Huntsman Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.50 3.00 3.00 3.25 4.00 3.00 4.00		
Avalon Aviator Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	5.0 3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5 3.5			III	Dawn Rose Dee Dee Ahrens Defiance (H) Detroiter Dr. Longley Dream Girl Drifted Snow Dwight Douglas	3.50 3.00 3.50 3.50 4.00 3.50 3.00 7.50				Imp. Early Wonder Irene James Eadie James Stewart Jewell Joybringer	3.00 3.00 3.25 4.00 3.00 4.00		••••••
Bamboo Barbara Beacon Betty Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	3.2 4.0 Small 3.2 4.0 3.2 d 4.5 3.5 3.5				Dee Dee Ahrens Defiance (H) Detroiter Or. Longley Dream Girl Drifted Snow Dwight Douglas	3.00 3.50 3.50 4.00 3.50 3.00 7.50				Wonder Irene James Eadie James Stewart Jewell Joybringer	3.00 3.25 4.00 3.00 4.00		
Bamboo Barbara Beacon Betty Bluebloc Bokhara Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary	4.00 Small 3.2: 4.00 3.2: d 4.5: 3.5:				Defiance (H) Detroiter Or. Longley Dream Girl Drifted Snow Dwight Douglas	3.50 3.50 4.00 3.50 3.00 7.50				Irene James Eadie James Stewart Jewell Joybringer	3.00 3.25 4.00 3.00 4.00		
Barbara Beacon Betty Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	Small 3.2 4.0 3.2 d 4.5 3.5 3.5				Detroiter Dr. Longley Dream Girl Drifted Snow Dwight Douglas	3.50 4.00 3.50 3.00 7.50				James Eadie James Stewart Jewell Joybringer	3.25 4.00 3.00 4.00		•••••••
Beacon Betty Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary	4.0 3.2 d 4.5 3.5 3.5			I	Or. Longley Oream Girl Orifted Snow Owight Douglas	4.00 3.50 3.00 7.50		•••••••		James Stewart Jewell Joybringer	4.00 3.00 4.00		
Betty Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary Candeli	3.2d d 4.5 3.5 3.5			I	Oream Girl Orifted Snow Owight Douglas	3.50 3.00 7.50		•••••••		Jewell Joybringer	3.00 4.00		
Bluebloc Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	d 4.5 3.5 3.5		***************************************		Orifted Snow Owight Douglas	3.00 7.50				oybringer (4.00		
Bokhara Bonfire Brigadie Bright Fo Bronze F Burgund Calcite Calico Canary	3.5	•••••••	***************************************	E	Owight Douglas	7.50							
Bonfire Brigadie Bright Fo Bronze P Burgund Butterba Calcite Calico Canary	3.50	***********	**************	Е						lubilee	6.25	***************************************	
Brigadie Bright Fo Bronze F Burgund Butterba Calcite Calico Canary					Early Bronze	3.00				ublice			
Bright Fo	r 5.0	***************************************	* - ,				**********	**********		Judith Anderson	3.00		
Burgund Butterba Calcite Calico Canary Candeli					Early Gold	3.50	***************************************	********	I	Kath. Lehman	4.50	***************************************	
Burgund Butterba Calcite Calico Canary Candeli	recast 4.0			Е	Early Harvest	3.25	********	9444	1	King Midas	3.00		
Butterba Calcite Calico Canary Canary	yramid 3.2	***************************************	**********	Е	Carly Yellow	3.00	**********	************		Lassie	4.50		***********
CalciteCalicoCanary `Candleli	y 3.0			Е	Elizabeth Hood	5.00	*******	***********	1	Lav. Lady	3.50	************	
CalicoCanary `Candleli	ll (H) 3.0	************	* **********	Е	Interprise	5.00	*************	***********		Lee Powell	5.00	*************	
CalicoCanary `Candleli	3.00	************	**********	ЕЕ	Ermine	4.00		***************************************]	Lemonade	4.00		
Canary Candleli	4.0	***********	************		airbow	3.50	*******	**********			4.50	***********	
Candleli	Wonder 5.0	**********	0000000000000	F	ascination	6.25	*******	*************	1	Maestro	4.00		
	ght - 3.00	***********	*************************		ashion	4.00	*************	000000000000000		Magnificent	3.50		************
	Smith 3.0		\$454041010###	F	iesta	3.50	**********	***********		Mahogany			
Caravan					irecracker	4.50	***************************************			Cushion	3.50	************	
Card. Sp			************	F	ireside	4.00	************	***************************************		Maj. Cushion	3.00		
Carmelit			*******		Flaxen Beauty	5.00	************			Malinda Brown	6.25		
				Е	-	3.25	************			Marionette	4.00		***************************************
Camival	•					4.50				Masquerade	3.50	***************************************	***************************************
Cecil Bee						7.50				Mayford's	0.00		************
Champ.	,					3.50	************			Triumph	3.50		
Chas. Ny		***************************************				3.00			1	Meditation	3.25		***********
Chus. 1v	е 3.25	***********	*************			0.00		************		**************	0.20	***************************************	***************************************

GARDEN (Hardy) VARIETIES

						KDLII (II	,							
Quan.	Variety	Price 50 Only	Unit Price	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount
	Ming	5.00			***************************************	Purple Star	3.00				Sweepstak	e 4.00	*************	
	Misty Maid	3.50				Rajah	4.50		***********		Sweethear	t 4.00	***************************************	***************************************
********	Mme. Cadillac	7.50				Red Glow	3.50				Symphony	3.00	************	**********
	Mogul	5.00				Red Gold	3.25	,			Tangerine	3.25		
	Mona	4.00				Red Riding Ho	od 3.25			***********	Tapestry	4.50		
*******	Monogram	4.00				Red Velvet	3.25				The Chief	3.00	***************************************	
**********	Moonlight	5.00				Remembrance	3.50				Tiffany Ros	se 3.00	***************************************	
	Mrs. DuPont	3.50				Renown	4.00				Treasure	4.50	***************************************	
************	Mrs. Rotan	3.25				Robinhue	4.00				Vanguard	5.00		
*******	Myrtle Walgree	n 3.50			1	Rodell Imp.	2.75			***************************************	Violet	3.25	***************************************	
*********	Nocturne	4.00			1	Rose Spoon	3.00		**********		Welcome	3.00	••••••	***************************************
***********	Nokomis	4.00				Rosita	3.25				Wh. Bounty	y 3.50		
**********	Norona	4.50				Rouge Cushion	5.00		***********		Wh. Cloud	3.50	***************************************	
	Nye's Favorite	3.50				Royal Robe	6.25				Wh. Cushid	on 3.00	************	
	Nytoda	5.00			1	Ruby Pompon	3.00				White Spoo	on 3.00	************	
	Old Gold	3.25			1	Ruthann Lehm e	an 4.50		***************************************	************	White Tow	er 3.50	************	
*********	Olive Longland	2.75	•••••			Sal. Precose	3.50				Wh. Wonde	er 3.00		
***********	Orchid Helen	4.50				Salute	4.00				Winsome	3.50		
********	Orchid Spoon	3.50				Sam Williston	3.00	•••••			Winterset (H) 3.25		
*********	Orloma	7.50				Scarlet Crimson	n 3.25				Witchery	4.00		
	Orpheus	7.50				Sept. Bronze	3.00				W. P. Snyd			
••••	Orsona	7.50				Sept. Cheer	3.00				Wychwood			
	Panorama	5.00				Sept. Dawn	3.00				Wychwood Yel. Avalai		**************	
*********	Paper White	4.00				Sept. Sunshine	3.25							
***********	Pat. Lehman	4.50		***************************************		Serenade	4.00	•••••			Yel. Blanke	ot 3.25	***********	************
	Pepita	3.50	***************************************			Shalimar (H)	4.50				Yel. Chris			
************	Pink Beauty	3.00				Silver Ball	2.75				Columb			*************
	Pink Opal	5.00				Silverplate	4.00				Yel. Cushio		*************	
*********	Pink Surprise	3.50				Snow Fall	3.50				Yel. Irene	3.00	***************************************	
*********	Polar Ice	3.50				Spellbound	3.25				Yel. Spoon	3.50		
	Polaris	4.00				Spindrift	6.25			**********	Yel. Suprer	ne (H) 3.00	***************************************	
	Pomponette	3.00				Sunapee	3.25		*************		Youdath's	White 3.00	***************************************	***************************************
					1									

1 H12	TABLE INDICATES	PRICES FOR MORE	THAN 50 OF A VA	AKIETT ON ONE SH	IPMENI
50 Only	100-250 Per 100	300-450 Per 100	500-950 Per 100	1000-2450 Per 100	2500-u Per 100
\$2.75	\$5.20	\$4.95	\$4.65	\$4,40	\$4.10
3.00	5.70	5.40	5.10	4.80	4.50
3.25	6.15	5.85	5.50	5.20	4.85
3.50	6.65	6.30	5.95	5.60	5.25
4.00	7.60	7.20	6.80	6.40	6.00
4.50	8.55	8.10	7.65	7.20	6.75
5.00	9.50	9.00	8.50	8.00	7.50
6.25	12.00	11.50	11.00	10.50	10.00
7.50	14.50	14.00	13.50	13.00	12.50

.....SPECIAL OFFER No. 1

500 rooted cuttings, our selection; 50 each of 10 taller varieties for cutting. \$25.00.

.....SPECIAL OFFER No. 2

500 rooted cuttings, our selection; 50 each of 10 medium to short varieties for pots or bedding. \$25.00.

.....SPECIAL OFFER No. 3

500 rooted cuttings, our selection; 50 each of 5 varieties for cutting, 50 each of 5 varieties for bedding. \$25.00.

.....SPECIAL OFFER No. 4

500 rooted cuttings, our selection for Mother's Day blooming. \$25.00.



.....Chas. Nye

Rooted Mum Cuttings=1953

WE	ST CHICA ILLINDIS	60			GREEN	HOUS	E VARI	ETIES	LT	F	lec'd		
			Date				Ter	ms			Ck.		
FIRM NAME										Ī	Л.O.		
STREET OR R. F. I).	O'NORMAN THE N									Chg.		
										F	emitte	ance Er	nclosed
CITY AND STATE	<u> </u>				-		Chin		:6 .1	://	1		ed duona
Ship By Railroad Express Air Freight Air Express Check one of abo	ove.	Substi		eck one)	Yes No.				-	ifferent from r			
IMPORTANT!—To advance of deliver DELIVERY DATE.	ry dat Minin	e. ABS0 num ord	OLUTELY er 500, 5	NO CHO of a va	ANGES ON riety or mul	YOU. tiples	of 50. F	er Can Please m	ark SPE	CEPTED WIT	HIN g date	e.	YS OF
LIMITATION OF WARRAI recognized tolerances. Se	NTY. G	ieo. J. Ball, es no other	Inc., warra or further	nts to the e warranty, e	extent of the pur express or implies	rchase pi d.	rice that s	eeds, plants,	or bulbs s	sold are as describ	ed on t	he contain	er within
					MPONS, SI								
	Price	Unit	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount
Quan. Variety 7-Week	50 Only		Amount	Quan.	10-Weel	- '		7.1104111		.Paramount			
Sept. Morn.	\$3.50				Encore	3.50				12-Week	Vari	eties	
White Wonder	3.00		•••••		Kolowa	4.00				White Lady			
Chris. Columbus	3.50				Madonna	4.50				White Yuletide	3.00		
Avalanche	3.25	************			White Anemone	3.25				Crystal Valencia		*************	***********
Wh. Cloud	3.50	*******			White Mensa	3.00				White Valencia	0.50		
Horizon	4.50			1	Moonglow	3.50		***************************************	***********	Belray	4.00	******	************
Classic	4.00				Rev. Bushnell	3.25		*************		.Cordova	3.00		**********
Maestro	4.00				_	4.50				Fortune	4.00	************	
Renown	4.00			1	Illini Igloo	5.00		***************************************		Monarch	4.50		
Silverplate	4.00	***************************************			Little America	2.75		************		13-Week	Vari	ohion	
					_	3.50							
8-Week	Vari	eties				3.00	***************************************		4944444444	Acclaim		*************	*************
Calif. Wh. Daisy	3.50	***********		1	Shasta Daisy	3.00				Cotillion	4 50	***********	***********
Irene	3.00	************			vesper Ilini Snowdrift	3.00 3.50	***************************************			Spangles	4.00		*************
Norona	4.50	***************************************	***************************************		Matchless	3.00	***************************************	************			0.50		
Silver Ball		***************************************		***************************************				*************		Carrara			***************************************
Minong	2.75	***************************************	************		11-Weel					Snowdrop			***************
Pristine	3.50	***************************************	***************************************				***************************************		1	Snow Queen			
9-Week	Vari	ation.				3.50			1	White Supreme			
					Sculpture Snowflurry	4.00			************	•			***************************************
Cotion Top	3.00 4.50		***************************************	1	White Freida	3.00	***************			14-Week			
Pinocchio	3.00	***************************************			White Norma	3.25				Snowcrest	3.50		
Popcorn	3.50				Highbrow	4.00	************				3.00		
Shooting Star	4.50		***************************************		Long Island				1	Satellite	4.50	************	
Songster	4.00	***************************************			Beauty	2.75		*************	***************************************	.Silversmith	3.50	***************************************	***************************************
White Popcorn	4.50	************	***********	1	Nevada	3.00	************	***********		Snowcap	3.50		*************
Arcadia	3.00	***********			Priscilla	3.00			*********	.Heirloom	4.00		
Halo	4.00	***************************************			Seafoam	3.00		***************************************	********	.Revelation	2.75	***********	*************
Seagull	3.00		************		Crystal Beauty	3.50			**********	Snow	3.00		*********
White Doty	3.00	***************************************	***********	I	llini Bountiful	3.50	•••••	•••••		Illini Snowbound	5.00	•••••••••	**********
			YEL	LOW PO	OMPONS, S	INGLE	S and	ANEMO	NES				
	Price	Unit	Amaunt	0	Variety	Price 50 Only	Unit Price	Amount	Auan	Vanish	Price 50 Only	Unit	A
Quan. Variety	50 Only		Amount	Quan.				Amount	Quán.			Price	Amount
7-Week	Varie	eties			Fellow Spoon	4.50 3.50	***************************************	***************************************	1	.Moondrift	5.00	•••••	
Yel. Chris.					Bright Forecast	3.50 4.00	************	**********	***********	Rodell Imp.	2.75	***************************************	***************************************
Columbus	3.50	***********	***************************************		_	4.00				9-Week	Van:	tion	
Moonlight	5.00		**************			4.50	***************************************	***************************************				ries	
Honeycomb	3.00			1	Lemonade	4.00	*************	**************		.Cream Dot	3.00	***************************************	************
D.C.P.	3.50		************	\$	Sweepstake	4.00	***************************************			.Gold Coast	2.75	***************************************	*************
Polaris	4.00				8-Week					.Golden Herald	3.00	***************************************	

.....Yellow Irene

3.00

GREENHOUSE VARIETIES YELLOW POMPONS, SINGLES and ANEMONES (Cont'd)

			ILLLOW		5145, 5114GE						D. 1	91-16	
Quan. Variety	Price 50 Only	Unit Price	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount	Quan.	Variety	Price 50 Only	Unit Price	Amount
				-	· ·				_	Brandywine	4.50		*************
Sunup	4.50				Princeton	3.25			1	_	3.50		
Yellow Dot	3.00	***************************************	**********		Thorobred	4.50	***********	***********		Cinderella		***************************************	***************************************
Yel. Firebird	3.25	*****	**********		Yellow Fellow	3.00	**********	*********	Į.	Goldtone	4.00	***************************************	
Yel. Arcadia	3.00			•••••	Illini Brave	3.50		***************************************		ack-Pot	4.50		***************************************
Calif. Yel.Daisy	3.00	••••			Tacoma	5.00				Symmetry	4.50	• • • • • • • • • • • • • • • • • • • •	***************************************
Ivory Sea Gull	3.00	************	**********		Susanne Miller	3.25	***********	***********		Yel. Cameo	3.00		*************
Mary Gold	2.75	************	************		Bojangles	4.00	**********	***********		Yel. Spangles	5.00		
Mary Hall	2.75		*************	1	Illini Sunspot	5.00	************			rel. Swan	3.50		*************
Sch. Daisy	3.50	***************************************	***********	i	Klondike	4.00	**********	************	1	čel. Supreme	3.25		*************
Starbright	3.50	***********		**********		4.00	************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	Challenge	4.00		************
			0000110140600	Į.					{				
Yel, Cassandra			**********	***********		4.50	***********			Jorsair	4.50	***************************************	***************************************
Yel. Daisy	3.00	***********	,	3	Yellow Highbrov		***********	**********		14-Week	Vari	otios	
Yel. Doty	3.00	************	**********		Yel. L. I. Beauty	3.50	***************************************	****************				Cilcs	
Yel. Halo	5.00	************	***********		Yel. Nevada	3.00				Cream Snowcrest	5.00		***************************************
Yel. Sea Gull	3.00	**********	*********		12-Weel	- Vari	otion			lel. Riviera	3.50	***************************************	***************************************
Sunray	2.75	***********		}			eries			el. Snowcrest	4.50		
					Champagne	3.50		***************************************		Dec. Gold	3.00		
10-Wee	k Vari	ieties			Goldenrod	4.50	************	**********					
					Goldsmith	3.25	*************			•	4.00	••••••	***************************************
Brigadoon	4.50	**********			Highlander	4.50	**********	***********	}	Shamrock	4.00		
Barcarole	3.00	**********	**********	3	Illini Gold	3.25				lel. Garza	3.00		
Constellation	3.00	**********	***********	ŧ	Illini Sunny	5.00	************		,,,,,,,	Gold Seal	5.00		***************************************
Crescendo	4.00	***********	*********	ļ							4.50		
Golden Mensa	3.00	************	***********	•	Sunnyside	3.00	************	************		_			*************
Nuggets	2.75	***********	**********	1	Yel. Priscilla	4.50	************				3.50	***************************************	
Pixie	3,25			i .	Yel.Rolinda	3.00	***********		2		4.50	*****************	***********
Mason's Yellow				************	Golden Jane	3.00	**********		7	/ibrant	3.00	***********	
		*************			Yel. Valencia	3.00	************	***********		Golden Anniv.	3.50	***********	***************************************
Yel. Nagona	3.50		4101440000000		Yel. Cordova	3.00		************			4.00		**********
Yel. Shasta	3.00	**********	**********		Nosegay	4.50		000000000000000000000000000000000000000					
Illini Goldcup	4.00	**********	********	************		3.00		***********		Tel. Revelation	3.50		*************
					Yel. Galaxy	5.00				Yel. Snow	3.00		***************************************
11-We	k Vari	ieties		***********				***********		l'uleflame	3.50	*****	**********
Forty-Niner	3.50	***********			13-Weel	k Vari	eties		I	ll. Yel.			
Golden Chord	3.50	************			Golden Harvest					Snowbound	5.00	***********	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	***************************************	************	***************************************	GOIGON HAI VOSI	0.00	***************************************	***********)	DIIOWDOUIL	0.00	************	*************
			BRO	NZE PO	OMPONS, SI	INGLE	S and	ANEMO	NES				
	Price	Unit	1		OMPONS, S	Price	Unit		1		Price	Unit	
Quan. Variety	50 Only	Price	BRO	Quan.	Variety			ANEMO Amount	Quan.		Price 50 Only	Unit Price	Amount
7-Weel	50 Only	Price	1	Quan.		Price	Unit Price		Quan.	Variety Bronze Thyra	Price 50 Only 3.50		Amount
	50 Only	Price eties	1	Quan.	Variety	Price 50 Only	Unit Price	Amount	Quan.		50 Only	Price	
7-Weel	50 Only Vari e	Price eties	Amount	Quan.	Variety James Stewart Adelaide	Price 50 Only 4.00	Unit Price	Amount	Quan.	Bronze Thyra	3.50	Price	******
7-Weel	50 Only k Varie 3.50	Price eties	Amount	Quan.	Variety James Stewart Adelaide Jemima	Price 50 Only 4.00 3.00	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer	3.50 3.25	Price	
7-WeelBonfireMarionetteMogul	50 Only k Varie 3.50 4.00 5.00	Price eties	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary	Price 59 Only 4.90 3.00 3.00	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron	3.50 3.25 4.00 4.00	Price	
7-WeelBonfireMarionetteMogulW. P. Snyder	50 Only k Varie 3.50 4.00 5.00 3.50	Price eties	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur	Price 59 Only 4.90 3.00 3.00	Unit	Amount	Quan. I	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead	3.50 3.25 4.00 4.00 4.00	Price	
7-WeelBonfireMarionetteMogulW. P. SnyderAvalon	50 Only k Varie 3.50 4.00 5.00 3.50 5.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary	Price 59 Only 4.90 3.00 3.00	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa	3.50 3.25 4.00 4.00 4.00 3.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week	Price 59 Only 4.00 3.00 3.00 3.50 Varie	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Europa Illini Burma	3.50 3.25 4.00 4.00 4.00 3.50 4.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman	50 Only K Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton	Price 50 Only 4.00 3.00 3.00 3.50 Varie 3.25	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Europa Illini Burma Mason's Bronze	3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot	Price 59 Only 4.90 3.00 3.00 3.50 Varie 3.25 3.00	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Curopa Illini Burma Mason's Bronze Mason's Red	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman	50 Only K Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin	97 Price 50 Only 4.60 3.00 3.00 3.50 Varie 3.25 3.00 4.00	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Curopa Illini Burma Mason's Bronze Mason's Red	3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo	50 Only K Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird	4.60 3.00 3.00 3.50 Varie 3.25 3.00 4.00 3.00	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Gamovar	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze	Price 50 Only 4.60 3.00 3.00 3.50 Varie 3.25 3.00 4.00 3.05 3.25	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.00 4.00 4.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy	Price 50 Only 4.60 3.00 3.00 3.50 Varie 3.25 3.00 4.00 3.05 3.25	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Gamovar Bylvanna The Titan Gold Braid	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna The Titan Gold Braid Br. Masterpiece	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Gamovar Bylvanna The Titan Gold Braid Br. Masterpiece Dk. Br.	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.5	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Dais	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50	Unit	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna The Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Imp. Red Daisy	## Price 59 Only 4.60 3.00 3.50 4.60 3.25 3.00 4.60 3.25 4.00 3.00 4.50 4.50 4.50 3.50 3.50	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Gamovar Sylvanna The Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece Illini Rye	3.50 Only 3.50 3.25 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00 3.50 4.50 4.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.5	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50 4.50 4.50 3.50 3.50	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna The Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccameer Imp. Bronze Daisy Red Seneca Navaho	4.60 3.00 3.00 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50 4.50 4.50 3.50 3.50 3.50	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna The Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier	3.50 Only 3.50 3.25 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00 3.50 4.50 4.50	Price	
7-Wee Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 4.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccameer Imp. Bronze Daisy Red Seneca Navaho Seneca	4.60 3.00 3.50 4.60 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50 3.50 3.50 3.50 3.50 3.50 3.50	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna Che Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier Oaragon	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00	Price	
7-Wee Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 5.00 5.00 5.00 5.00 5.00 5.00 5	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccameer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy	4.60 3.00 3.50 4.60 3.25 3.00 4.60 3.00 4.50 4.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna The Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00	Price	
7-Wee Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccameer Imp. Bronze Daisy Red Seneca Navaho Seneca	4.60 3.00 3.50 4.60 3.50 4.00 3.25 3.00 4.00 3.25 4.00 3.00 4.50 3.50 3.50 3.50 3.50 3.50 3.50	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bamovar Bylvanna Che Titan Gold Braid Br. Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier Oaragon	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00	Price	
7-Wee Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00 4.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham	4.60 3.00 3.00 3.50 4.60 3.25 3.00 4.60 3.25 4.00 3.00 4.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dis. Br. Masterpiece Illini Rye Illini Tangier Paragon 11-Week	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari	Price	
7-Wee Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.00 4.50 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week	## Price 59 Only 4.60 3.00 3.50 Varie 3.25 3.00 4.00 3.25 4.00 3.50 3.50 3.50 3.50 3.50 3.25 3.25 3.50 4.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.00 4.50 4.50 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche	## Price 50 Only 4.60 3.00 3.50 Varie 3.25 3.00 4.00 3.25 4.00 3.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.00 3.50 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche Beauregard	## Price 59 Only 4.60 3.00 3.50 Varie 3.25 3.00 4.00 3.25 4.00 3.50 3.50 3.50 3.50 3.50 3.25 3.25 3.50 4.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterplece Dk. Br. Masterplece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 4.50 4.00 4.50 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 5.00 4.00 5.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche	## Price 50 Only 4.60 3.00 3.50 Varie 3.25 3.00 4.00 3.25 4.00 3.50 3	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Chalimar	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 4.50 5.00 4.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.00 3.50 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche Beauregard	### Price 59 Only 4.60 3.00 3.50 **Varie 3.25 3.00 4.00 3.25 4.00 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 4.00	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Chalimar Illini Redhead	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 4.50 4.00 4.50 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.00 3.50 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche Beauregard Bittersweet	## Price 50 Only 4.60 3.00 3.50 4.00 3.25 4.00 3.50 4.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 4.00 3.50 4.00 3.00 4.00 3.00 4.00 3.00 4.00 3.00 4.00 3.00 4.00 3.00	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Chalimar Illini Redhead	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 4.50 5.00 4.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carmival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery 8-Weel	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.00 3.50 4.00 4.00 5.00 4.00	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Comanche Beauregard Bittersweet Butterscotch Cassandra	### Price 50 Only 4.60 3.00 3.50 4.00 3.25 4.00 3.50 3.50 3.50 3.50 3.50 4.00 3.50 3.50 4.00 3.50 4.00 3.50 3.50 3.00 3.50 3.00 3.50 3.00 3.50 3.00 3.50 3.00 3.50 3.00 3.50 3.00 3.50 3.00 3	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Chalimar Illini Redhead	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 3.50 4.50 3.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carmine Queen Carmical Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery 8-Weel	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.50 4.50 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.50 4.50 4.50 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Beauregard Bittersweet Butterscotch Cassandra Magician	## Price 100 1	Unit Price	Amount	Quan	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon 11-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Shalimar Illini Redhead Bourbon Illini Redhead Bourbon Illini Warrior	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 3.50 3.50 3.50 3.50 3.50	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery 8-Weel	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.50 4.50 4.50 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Beauregard Bittersweet Butterscotch Cassandra Magician Red Rust	### Price 100	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Tangier Daragon Il-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Shalimar Illini Redhead Bourbon Illini Warrior Legal Tender	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 3.50 4.70 3.25 3.50 4.70 3.25 3.50 4.70 3.25 4.70 3.25 3.50 4.70	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery 8-Weel Cocktail Detroiter Rajah	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 4.50 4.50 4.50 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Beauregard Bittersweet Butterscotch Cassandra Magician Red Rust Rubicon	### Price 100	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier Daragon Il-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Shalimar Illini Redhead Bourbon Illini Warrior Legal Tender Rusticon	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 3.50 3.25 3.50 4.00 3.25 4.50 3.00	Price	
7-Weel Bonfire Marionette Mogul W. P. Snyder Avalon Firecracker Huntsman Mona Panorama Bamboo Blueblood Calico Caravan Carmine Queen Carnival Fireside Red Velvet Remembrance Admiral Carmelita Fashion Mrs. DuPont Nocturne Nokomis Nytoda Witchery 8-Weel	50 Only k Varie 3.50 4.00 5.00 3.50 5.00 4.50 3.50 4.00 5.00 4.50 4.00 4.50 4.00 3.50 4.00 3.50 4.00 3.50 4.00 4.50 4.50 4.50 4.50 4.50 4.50 4	Price	Amount	Quan.	Variety James Stewart Adelaide Jemima Br. Mary McArthur 9-Week Bonton Bronze Dot Buckskin Firebird October Bronze Firefly Bronze Daisy Buccaneer Imp. Bronze Daisy Red Seneca Navaho Seneca Red Daisy Br. Buckingham 10-Week Beauregard Bittersweet Butterscotch Cassandra Magician Red Rust Rubicon	## Price 50 Only 4.60 3.00 3.50 3.00 3.50 3.00 3.00 3.50 3.00 3.00 3.50 3.00 3.00 3.50 3.00 3.	Unit Price	Amount	Quan.	Bronze Thyra Bronze Tuxedo Chanticleer Chevron Copperhead Guropa Illini Burma Mason's Bronze Mason's Red Bronze Mason's Red Bronze Masterpiece Dk. Br. Masterpiece Illini Rye Illini Tangier Daragon Il-Week Br. Princeton Illini Honey Mrs. Dewey Red Princeton Shalimar Illini Redhead Bourbon Illini Warrior Legal Tender Rusticon	3.50 Only 3.50 3.25 4.00 4.00 4.00 3.50 4.50 3.25 3.50 3.00 3.25 4.50 3.00 4.50 5.00 4.00 Vari 3.25 3.50 4.00 3.25 4.50 3.50 4.70 3.25 3.50 4.70 3.25 3.50 4.70 3.25 4.70 3.25 3.50 4.70	Price	

GREENHOUSE VARIETIES BRONZE POMPONS, SINGLES and ANEMONES (Cont'd)

4			RKONZE	POMPONS, SINGLE	es an	d ANE	MONES	(Cont'd)			
BAU wan	Price	Unit		NeO ester	Price	Unit		. rinth poly	Price	Unit	
Quan. Variety	50 Only	Price	Amount	Quan. Variety	50 Only	Price	Amount	Quan. Variety	50 Only	Price	Amount
Red Rolinda	3.00		***********	Galaxy	3.50		***********	Christmas Star	3.50	***************************************	
Bronze Minuet	3.50	*************	**********	13-Week	Vari	otice		Bronze Minstrel	3.50	************	
Festival	3.50	***************************************	· · · · · · · · · · · · · · · · · · ·	Br. Enchantress				Dk. Br. Minstrel	5.00	***************************************	***********
12-Weel	. V				3.25	••••••		The state of the s			
		middle and the same		Dazzler	4.50	*************		14-Week	Vari	eties	
Br. Goldsmith	3.25	***************************************	***************************************	Debonair	3.00	***************************************		Bronze Riviera	3.50		
Falcon	4.00		***************************************	Mahogany Viking		************	***************************************		4.00		
Yolanda	3.50	***************************************	***************************************	Bronze Supreme	3.25	***************************************	************	Annual Control of the Paris of			
Wanakah	5.00	***************************************	************	Cavalcade	3.50		************	Claret	4.50	************	**********
Apricot Valencio	3.00		*************	Harlequin	4.50	************	***************************************	Sarong	3.25	**********	**********
Crimson Valenci	a 3.50	***************************************	***************************************	Holiday	3.50	***************************************	***********	Topaz	4.50	***********	**********
Indian Head	4.00	***************************************	***************************************	Pageantry	4.00	***************************************	*************	Merrymaker	3.50		**********
Amberina	4.50	**************	**************	Red Supreme	3.50	***************************************	***********	Poinsettia	4.50		***********
			_								
			P	INK POMPONS, SIN	GLES	and Al	NEMONI	ES			
	Price	Unit		Variables	Price	Unit		22.0	Price	Unit	
Quan. Variety	50 Only	Price	Amount	Quan. Variety	50 Only		Amount	Quan. Variety	50 Only	Price	Amount
7-Week	Varie	eties		October Pink	3.25	************	************	Pk.L. I. Beauty	3.50	***********	***********
Misty Maid	3.50			Pink Dot	3.00			Pinky	4.00		**********
Early Wonder	3.00			Reward	4.00		***************************************	Vivacious Lady	4.50		
			***************************************	Arbutus	5.00			Minuet	3.00		
Spellbound	3.25	***************************************	***************************************	Ballerina	3.50	***************************************			0.00		
Argonne	3.50	************	**********	Lillian Doty	3.00			12-Week	Vari	eties	
Brigadier	5.00	***************************************	***************************************	Pink Cal. Daisy	3.50		***************************************	Beautiful Lady	3.00		
Courtier	4.50	***************************************	•••••	Rainbow	5.00		1	Hasegawa Pink	3.50	***************************************	
Dream Girl	3.50		***************************************			***************************************		Princess	4.50	***************************************	
Joybringer	4.00	***************************************		W.H.Buckingham	1 3.50	************	******	Dark Valencia	3.00	***************************************	
Lassie	4.50		***************************************	10-Week	Vari	eties		The second secon	5.00		
Orchid Spoon	3.50		***************************************	Dreamboat	3.00			Dub. Valencia			
Ponca	3.50	***************************************		Dark Bulkeley				Orchid Valencia	4.50	***************************************	
Serenade	4.00	***************************************	*************	Control of the Contro	3.25			Salmon Valencia		*******************	
Sweetheart	4.00			Dark Linda Lou	3.00	***************************************		Valencia	3.00	***************************************	
Adagio	4.00			Linda Lou	3.00	***************************************	***************************************	Heritage	4.50		*************
Allegro	3.25		***************************************	Miss Clarinda	4.50	***************************************	************	12 34/ 1	W .		
Lav. Lady	3.50			Pandora	4.50		***********	13-Week	Vari	eties	
	3.50		***************************************	Soprano	3.50	***************************************	***************************************	Dk. Enchantress	3.50		***********
Masquerade				Thyra	3.00		**************	Enchantress	3.25		************
Ronnie	3.50			Tuxedo	3.25		************	Dk. Pk. Supreme	3.25	*************	***********
Salute	4.00	***************************************	***********	Masterpiece	3.00	***************************************	***********	Debutante	4.00	************	***************************************
0.347				Memorial	4.50	***************************************	*************	Illini Camille	4.00		***********
8-Week	Vari	eties		Rose Masterpiece				Imp. Dk. Supreme	3.50		************
Dark Jewell	3.00	***************************************	************	Sal. Masterpiece	3.50			Lt. Pk. Minstrel	5.00		
Eliz. Hood	5.00		*************	Taffeta	4.00			Minstrel	3.50	**************	
Enterprise	5.00	************	**************				************	100			***************************************
Jewell	3.00	************	***************************************	11-Week	Vari	eties		14-Week	Vari	eties	
	3.00	***************************************	***********	Brocade	3.00	***************************************		Coronet	4.00	***************************************	***********
Capt. Cook	3.00	***************************************		Dark Norma	3.25			Dark Riviera	3.50		
Pink Sprite	3.50			Freida	3.00	***************************************	***************************************	Riviera	3.00		***************************************
Mary McArthur	3.50			Orchid Beauty	3.00			Serrated Riviera	5.00	***************************************	
y Maria	0.00	***************************************	************	Almega	5.00			Defiance	3.50		***********
9-Week	Vari	eties				***************************************	***********		4.00		
				Dk. L. I. BeautyEvening Star	5.00	***************************************	************	MedallionPk. Treas. Island		***************************************	************
Betty Rose	3.25	*************	************		4.50	***********	***********		2.75	***********	**********
Edith Roberts	3.50	************	************	Grand Slam	4.50		************	Rosalind	3.00	***************************************	***********
Jessie	3.00	***************************************	***************************************	Majorette	4.00	***************************************	***************************************	Rose Medallion	5.00	***********	**********
			100	LARGE FLOWER	ING	STAND	ARDS				
						שואוע	ARDS				
				WF	HITE						
2.5.7	Price	Unit	A	200	Price	Unit	Auror	Ouen Walt	Price	Unit	Acres
Quan. Variety	50 Only		Amount	0.8.0	50 Only		Amount	Quan. Variety	50 Only	Price	Amount
8-Week	Vario	eties		10-Week	Vari	eties		Indiana Market	3.50		**********
Silver Sheen	3.00		*************	Betsy Ross	3.00		************	Mefo	3.00		***********
White Chief	3.50		***************************************	Giant Betsy Ross	3.50		************	White Frick	3.00	************	***********
Christing	3.50	***************************************		Ind. White	3.00	************	************	22.14	. 1/		
				Richard Mandel	3.00			12-Week	Vari	eties	
9-Week	Varie	eties		Wh. Rayonnante	3.25			Chattanooga	3.00		
Ambassador	3.00		************	Crystal Queen	5.00	*************	***************************************	December Glory	3.00		*************
Granite State	3.00	***************************************		Jean Elizabeth	3.25	***************************************		Margaret Moeller	3.00		************
			***************************************	Monument	3.00		***************************************	100,02			
Albatross	3.00	***********	*************			************	***************************************	13-Week		eries	
Kay Tashima	3.50	***************************************		White Pockett	3.25	************	***************************************	December White			*************
Queen's Lace	3.50	************	***************************************	11-Week	Vari	eties		White Mistletoe	3.25	*************	************
C 7777 ::	200			CV. 21				0 1	1.00		
Snow White	3.00	***************************************		Sterling	3.50		*************	Snowline	4.00		***************************************
	3.00 4.50			SterlingMarketeer	3.50	*************		SnowlineSmith's White	3.25		***************************************

GREENHOUSE VARIETIES

			YELLOW S	TANDARDS	S CHAMON	SEMONS -	Price Unit	
	Price Unit 50 Only Price	Amount		Price Unit 50 Only Price	Amount		50 Only Price	Amou
8-Week	Varieties		Yellow Lace	3.50	***************************************	Friendly Rival	3.50	
Harvest Golden	3.50		10-Week	Varieties		Yel. Mefo	3.00	
Celestra	3.00		Dk. Ind. Yel.	3.50				
Gold Lode	3.00		Imp. Ind. Yel.	5.00	957	Harvester	31000 AA - 25.5	
Butterball	3.50		Ind. Yellow	3.00		Transfer of the second		
Mrs. Kidder	2.75		Sue Sally Jones	3.50	***************************************	12-Week	Varieties	
Blazing Gold	3.00		Yel. Rayonnante	3.50	***************************************	Golden Pearson	3.00	
0.347			Jamboree	4.00		Mrs. Calkins	3.50	
9-Week	Varieties		Yel. Beauty	3.25	***************************************	Sungold	3.00	
Moribana	5.00	***************************************	Yel. Monument	3.00		Yel. Chattanooga		
Smith's			Yel. Pockett	3.25		Golden Mrs. Ross		
Superlative	3.25	*************	Yel. Queen	3.25		Yel. Moeller	3.50	
Sunglow			Honey Dew	3.25		12 Wook	Varieties	
Yel. Ambassador	3.00	***************************************	EPHONISPIN TORS 6231	14				
Yel. Bergen	3.25	*************		Varieties		Chalice	4.50	
Gold Lace	5.00		Lorraine	3.50	***************************************	Golden Mistletoe		
Golden Glory	3.25	***************************************	Yel. Marketeer	5.00		Dauntless		
Good News	3.25		Bonnaffon Deluxe	2.75	***************************************	Meteore		
Hooked Yel. Lace	5.00		Cream Mefo	3.50		Tobin's Yellow	3.25	
			BRONZE AND R	ED STAND	ARDS			
	Price Unit		1	Price Unit		Variate	Price Unit	Amo
Quan. Variety	50 Only Price	Amount		50 Only Price	Amount			
8-Week	Varieties		Detroit News			Mrs. Stahelin	3.50	
Dalwin	5.00		Royal Bronze	5.00	***************************************	Oakdale	4.00	
Amber Bright		***************************************	10-Week	Varieties		Garnet King	3.25	
Mayford's	0.00	***************************************	Dk. Ind. Bronze	5.00	***************************************	Mrs. Roy		
	3.50		Gena Harwood			Bronze Frick	3.50	
Triumph	3.50	************	Ind. Bronze		*************	12 Wools	Variation	
9-Week	Varieties		Ind. Gold. Bronze		*************		Varieties	
Hilda Bergen	0.05		Mamoru			Gladys Pearson		
Glitters			Nomago		***************************************	Oak Leaf		
Red Glitters		*************	Waikiki		***************************************	Muto's Crimson	3.50	
		***************************************	Anaconda		***************************************	12 Wook	Varieties	
Apricot Queen					***************************************			
Ivanhoe	3.25	***************************************	Br. Orchid Queen	3.43	***********	Br. Mistletoe	3.25	
			PINK STA	ANDARDS				
	Price Unit	1	to make the second	Price Unit	×30.	. valenienV	Price Unit	
	50 Only Price	Amount		50 Only Price	Amount		50 Only Price	Amo
	Varieties		J. W. Prince	3.25		11-Week	Varieties	
Pink Chief		***************************************	Rayonnante	3.25	***************************************	Aristocrat	3.25	
Major Bowes	3.00	***************************************	Dk. Orchid Queen	3.25	***************************************	Helen Frick	3.00	
9-Week	Varieties				***************************************	Rose Delight	3.50	
Mary Garden	4.00	***************************************	Lavender Queen			Edwin Seidewitz	3.386	
Mrs. R. A. Walker	3.50		Orchid Queen	3.25		The second second second second		
Sugar Plum	4.00	***************************************	Peggy Hoover	3.50	**	Thanks, Pink	3.00	
10-Week	Varieties		Pink Pockett	3.25	************	13-Week	Varieties	
Indianapolis Pk.			Queen of Pinks	3.00	***************************************	Pink Mistletoe	3.25	
	0.00	***************************************	Queen of I mas	0.00	***************************************	IIIA IIIIBUOIOO	0.20	
THIS T	ABLE INDI	CATES	PRICES FOR MORE	THAN 50	OF A VA	RIETY ON ONE SHI	PMENT	
50	100-2	50	300-450	500-95	50	1000-2450	2500-up	, 77
Only	Per 1	00	Per 100	Per 10	0	Per 100	Per 100	
\$2.75	\$5.2		\$4.95	\$4.6		\$4.40	\$4.10	
3.00	5.		5.40 5.85	5.1		4.80	4.50	
3.25 3.50	6.0		6.30	5.5 5.9		5.20 5.60	4.85 5.25	
4.00	7.0		7.20	6.8		6.40	6.00	
4.50	8.	55	8.10	7.6	5	7.20	6.75	
5.00	9.	50	9.00	8.5	0	8.00	7.50	0
								11/2
		5	SPECIAL CO	DLLECT	ION	5		
. 250 Rooted Cuttings		\$14.25	C. 1000 Rooted Cutting	s	48.00	50 each of 50 varie	ties, or	
50 each of 5 varietie			50 each of 20 varie		13 .	100 each of 25 varie		
500 Rooted Cuttings.		25.50	100 each of 10 varie			250 each of 10 varie		
50 each of 10 varie			200 each of 5 variet			500 each of 5 variet		

D. 2500 Rooted Cuttings......112.50

Ghse, or Garden Varieties.....

Flowering Date.....

200 each of 5 varieties.

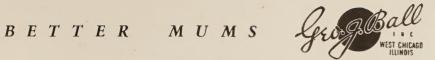
50 each of 10 varieties, or

For Collections, please specify: Shipping Date.....

100 each of 5 varieties.

Types....

500 each of 5 varieties.



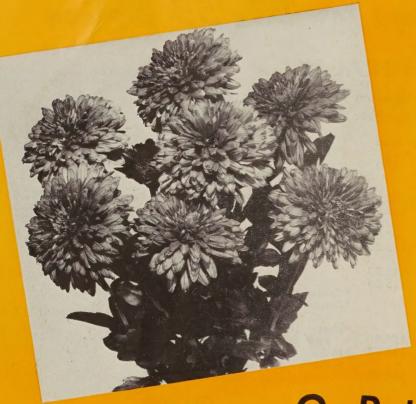
Carnation Cuttings for '52-'53 Season

GENERAL LIST

F.O.B. Shipping Point. Minimum order 100 of a variety except where noted. Shipment November thru spring; state when wanted.

		Cuttings			Cuttings
	Price 100	e Per 1000		Pric 100	e Per 1000
WHITE	100	1000	SALMON PINK	100	1000
*Improved Olivette. New white	\$20.00	\$150.00	*Coral (Res.). Brilliant salmon. Large flowers	522.00	\$180.00
Northland. Large, fragrant white		100.00	Excellence (Res.). Largest grown medium		7.00.00
Olivette. A good producer		90.00	salmon		200.00
*Schaefer's Peace (Res.). New white		90.00 175.00	Janie (Res.). Lighter than Netta and larger Salmon Virginia		180.00 90.00
White Sidney Littlefield (Res.). Pure white	20.00		Julion Vilginia	10.00	70.00
sport of Sidney Littlefield		150.00	YELLOW	,	
White Sim. Pure white sport of Wm. Sim	15.00	125.00	*Canary Queen (Res.). New yellow	22.00	180.00
LIGHT PINK			*Colorado Gold (Res.). Yellow. Minimum		150.00
Crowley's Sim (Res.). Blush pink sport of			order 500* *Harvest Moon (Res.), Yellow gold, Mini-		150.00
Wm. Sim. Minimum order 250		150.00	mum order 500.	-	150.00
"Gordon (Res.). New light pink	22.00	180.00	Miller's Yellow (Res.). Best yellow	12.00	100.00
Light Pink Littlefield. Light pink, similar to Virginia Hercules	20.00	150.00	Patten's Yellow (Res.). Clear yellow; strong stem	20.00	150.00
*Light Pink Northland (Res.). Flesh pink,			Stelli		.,,,,,,
sport of Northland		150.00 125.00	ORCHID		
Netta. Popular light pink Petersen's Pink Sim (Res.). Light pink		150.00	Orchid Weld.	20.00	150.00
Princess Elizabeth. Large flowered		125.00	***************************************		
Princess Irene.		100.00	VARIEGATED		
Virginia Hercules. Large sport of Virginia.	13.00	123.00	*Aura (USDA). Orange red variegated		125.00
MEDIUM PINK			Baby Bronze. Bronzy-buff with pink tint Barbara Brigham. Apricot with pink pencil-	20.00	150.00
Citation. Rose pink	15.00	125.00	ings		90.00
Mrs. Virginia Irwin. Medium pink		100.00	Butterscotch. Yellow-buff with pink tint		150.00
Rosalie (Pat.), Flowers medium to large *Serenade (Rés.), Medium pink, Minimum	15.00	125.00	*Desert Sun (Res.). New yellow variegated *Sim's Gaiety. Light pink variegated. Mini-	22.00	180.00
order 500.		150.00	mum order 250		150.00
Virginia Rose. Uniform production, good			Geiger's Variegated Sim (Res.). White, red		
keeper	10.00	90.00	penciling		150.00
DARK PINK			Harlequin. Flecked flesh pink Lavender Rose. Lavender rose seedling		125.00 125.00
*Belvedere (Res.). Rose pink	22.50	180.00	Mohawk (Res.). Yellow variegated with	15.00	123.00
*Boston (Res.). Dark pink, very productive		180.00	pink stripes	22.00	180.00
Canup's Pride (Res.). Good stem; free flow-	20.00	150.00	Mrs. E. F. Guba. Pale almond, vivid pink	20.00	150.00
ering**Fanfare (Res.). Dark pink, Minimum order	20.00	1 50.00	Pelargonium. Mottled crimson		150.00 125.00
500		150.00	*Peppermint Stick Littlefield. Pink varie-		-13.00
*Saugus Pink (Res.). Deep pink		180.00 150.00	gated, similar to Pink Art	20.00	150.00
Spicy Rose. Vivid rose pink		150.00	Pink Art (Res.). Pink variegated	20.00	150.00
Virginia Miller. Dark pink Virginia	12.00	100.00	Raspberry Ice. White, overlaid with pale orchid	20.00	150.00
CRIMSON & RED			Sara Jane Knipe (Pat.). Brilliant rosy ma-		.,,,,,,
C. W. Weld. Clean, healthy grower; good			genta. Silver edge		150.00
stem	10.00	90.00	Scarlet King. Sport of Pelargonium		125.00
*Durango (Res.). Crimson. Minimum order		150.00	*Scarlet Queen. Orange variegated* *Schaefer's Sophie (Res.). White, variegated	15.00	125.00
Jumbo Cardinal. Improved Cardinal		150.00 125.00	pink	20.00	175.00
*Kintzele's Deep Red. Minimum order 250		150.00	Sphynx. Crimson stripes on rose	15.00	125.00
No. 14 Crimson	12.00	100.00	Starlite. Variegated white		90.00
Pimpernelle. Red Beauty. Scarlet, similar to Wm. Sim		150.00	Symphony (Pat.). Mauve, purple stripes	20.00	150.00
Red No. 16. Same color as King Cardinal		100.00	*Tetra-Sarah Jane (PAF). Large flowered magenta, silver edge	25.00	200.00
*Schaefer's Red (Res.). New dark red	20.00	150.00	*Variegated Littlefield. Blush pink		150.00
Tom Knipe (Pat). Large, full flower Topper (Res.). Rich velvety maroon	22.00	150.00 180.00	Weirich's Peppermint Sim. Red and white,		
Wm. Sim (Pat). Vivid red seedling		150.00	red penciling. Minimum order 500		150.00
Wooster Scarlet. New red	12.00	100.00	*New outstanding 1952-53 introd	luctions	•

For Extra Profit Try



Garden Mums..

How about the Garden varieties for Mother's Day pot plants? See page 41 for detailed instructions. Shown is Madame Cadillac, a new mulberry wine color flowering in late September, introduced by De Petris.

. Or Pot Mums

Use of Mum pot plants should be a part of any off-season or year-round Mum program. Shown is Queen's Lace, one of the good varieties for this purpose. Instructions for flowering pot Mums out of season begin on page 40.



